

2/1/18 Public Forum Review Draft

2018 EAST MONTPELIER TOWN PLAN



East Montpelier Center Pastoral Views (Janet MacLeod)

Adopted Month ##, 2018



Sibley Road (Rob Ryan)

CONTENTS

INSERT PAGE NUMBERS

ACKNOWLEDGEMENTS.....	iv
EXECUTIVE SUMMARY	1
Chapter 1 INTRODUCTION.....	2
Chapter 2 ABOUT EAST MONTPELIER.....	
A. A Look at the Town	
B. East Montpelier & the Region.....	
Chapter 3 TOWN GOVERNMENT AND FINANCE.....	
A. Town Government	
B. Town Finance	
Chapter 4 COMMUNITY RESOURCES.....	
A. Townspeople	
B. Community Health	
C. Recreation.....	
D. Trails	
E. Historic Resources	
Chapter 5 PUBLIC SERVICES.....	
A. Education	
B. Social Services	
C. Emergency Services	
D. Hazard Mitigation & Flood Resilience	
Chapter 6 INFRASTRUCTURE	
A. Transportation	
B. Solid Waste Disposal	
C. Wastewater Treatment.....	
D. Energy and Energy Conservation	
Chapter 7 ECONOMIC DEVELOPMENT	
Chapter 8 HOUSING.....	

1	Chapter 9 NATURAL AND SCENIC RESOURCES.....
2	A. Air Quality
3	B. Wetlands and Waterways
4	C. Forest Resources and Integrity
5	D. Water Supplies and Aquifers
6	E. Earth Resources
7	F. Agriculture.....
8	G. Scenic Resources.....
9	Chapter 10 LAND USE.....
10	Chapter 11 IMPLEMENTATION
11	
12	APPENDICES
13	Appendix A Required Elements of a Town Plan.....
14	Appendix B 2011 Town Plan Survey Summary.....
15	Appendix C 2012 Recreation Survey Results.....
16	Appendix D Surficial and Bedrock Geology Mapping Summary
17	
18	MAPS.....
19	Map 1 East Montpelier Facilities
20	Map 2 East Montpelier Trails
21	Map 3 East Montpelier Historic Sites
22	Map 4 East Montpelier Wetlands, Waterways, and Flood Hazard Areas
23	Map 5 East Montpelier Transportation
24	Map 6 East Montpelier Village Sidewalks
25	Map 7 East Montpelier Utilities
26	Map 8 East Montpelier Housing Distribution
27	Map 9 East Montpelier Agricultural and Forest Lands
28	Map 10 East Montpelier Public and Protected Lands
29	Map 11 East Montpelier Significant Forest Blocks, Habitat Connectors and Physical
30	Landscapes
31	Map 12 East Montpelier Significant Natural and Scenic Resources
32	Map 13 East Montpelier Current Land Use

1	Map 14	East Montpelier Future Land Uses
2	Map 15	East Montpelier Village Center Designation
3	Map 16	East Montpelier Village Planning Areas
4	Map 17	2015 East Montpelier Zoning (Not Official Zoning Map)
5	Map 18	2015 East Montpelier Zoning Overlay Districts (Not Official Zoning Map)
6		
7		OTHER PLANS INCORPORATED BY REFERENCE
8	Available at:	http://eastmontpeliervt.org/documents/planning-zoning-documents/
9		East Montpelier Village Master Plan
10		East Montpelier Hazard Mitigation Plan
11		

ACKNOWLEDGEMENTS

The East Montpelier Planning Commission would like to acknowledge and thank the many individuals and organizations that have provided assistance and input on the 2018 East Montpelier Town Plan.

Jean Vissering, Planning Commission Chair, served as project coordinator and chief editor for this plan. **Julie Potter** contributed additional editing, as well as layout and design. The **Central Vermont Regional Planning Commission** provided technical assistance, data updates, maps and document review. **Kristi Flynn**, Recording Secretary, prepared meeting minutes, including detailed notes as the Planning Commission developed the plan. **Edie Miller** provided a fresh pair of eyes in editing the plan. **Bruce Johnson**, Town Administrator, provided substantial assistance as an information resource and in maintaining the town website as a repository for information and documents related to this plan.

Two other major planning efforts occurred concurrent with the development of the 2018 East Montpelier Town Plan. Special thanks are due the **Energy Committee** for developing the new Energy Plan, and **Bruce Johnson** and the **Selectboard** for updating the Hazard Mitigation Plan.

Many people provided input to the *2018 East Montpelier Town Plan*, in the form of information, data, text, comments and edits. Many attended working meetings or public hearings to discuss specific topics of interest, while others provided comment via letter or email. The Planning Commission would particularly like to thank the following individuals for their contributions:

Lindy Biggs	Flor Diaz	Joseph Kiefer	Fred Strong
Lyn Blackwell	Nona Estrin	Bill Kimball	Don Welch
Ginny Burley	Rachel Grossman	Steve Knowlton	Fred Wiseman
Sandal Cate	Rick Hopkins	Florence Morse	
Dave Coburn	Bruce Howlett	Mary Stone	

Numerous townspeople submitted photographs for the town plan. Contributors are listed below. Those whose photographs appear in the plan have an asterisk after their name.

Contributing Photographers

Terry Allen*	Leon Harris*	Jayne Placey	Matt Swenson
Kate Bean*	Doug Kevit-Kyler*	Julie Potter*	Toby Talbot*
Alex Brown*	Bob Klein*	Adam Rosen	Jean Vissering*
Heather Caldera	J. Larkin*	Rob Ryan*	Shari Young
Stephen Clark	Gary Ann Lewis*	Thomas Schmidt*	
Irwin Fisher	Janet MacLeod*	Tyler Debbs Squire*	

2018 East Montpelier Planning Commission Members

Jean Vissering, Chair	Scott Hess	Jack Pauly
Julie Potter, Vice Chair	Norman Hill	Jay Stewart
Kim Watson, Corresponding Secretary	Mark Lane	Ray Stout

EXECUTIVE SUMMARY

The *2018 East Montpelier Town Plan* is a policy statement for guiding future land use and community decisions within the town. This plan provides historical context, documents and analyzes present conditions, and identifies goals for the town's future.

The plan presents a long-term (10-20 year) vision of the future, but it is expected that this vision will be re-examined periodically. Vermont's Planning Act requires that municipal plans be reviewed, updated, and re-adopted every 8 years (recently increased from a 5-year cycle). Municipal planning is an on-going and continual process, as conditions, goals and progress are re-evaluated.

This plan is an update to the 2013 town plan. Information has been updated and new sections developed as needed. New sections include: Community Health, Hazard Mitigation and Flood Resilience, Air Quality, Forest Integrity, and Implementation. Scenic resources have been specifically identified and mapped. All of the maps have been updated or created to reflect new data and meet the needs of the plan. The plan was reformatted to incorporate new sections and improve online readability.

The *2018 East Montpelier Town Plan* identifies town goals and actions to achieve the goals. A number of policies related the goals have also been developed to ensure that the town plan is considered in state permitting processes (Act 250 land use permits and Section 248 public utility permitting). Goals, policies and actions are identified at the end of each relevant section and compiled in Chapter 11: Implementation.

Successful plan implementation requires establishing priorities. The seven **top priority actions** identified in this plan are:

- ✓ **Action 6.12.1:** Complete the East Montpelier Energy Plan and incorporate it into the 2018 Town Plan by amendment.
- ✓ **Action 7.3.1:** Review and update the East Montpelier *Land Use and Development Regulations* to ensure that commercial and industrial areas are appropriate and adequate to encourage appropriate business growth.
- ✓ **Action 9.9.2:** Ensure that the water supply system for East Montpelier Village acquires sufficient capacity to serve current and future customers and meets firefighting needs.
- ✓ **Action 10.1.1:** Review and update East Montpelier's zoning districts to ensure that the boundaries, purposes and standards are appropriate to meet the goals of the town plan.
- ✓ **Action 10.1.2:** Review and update site plan review parking and design standards in the *Land Use and Development Regulations*.
- ✓ **Action 10.1.3:** Update the *Land Use and Development Regulations* to make it easier to do Planned Unit Developments.
- ✓ **Action 10.2.1:** Adopt village zoning to implement the *East Montpelier Village Master Plan*.

This plan identifies an additional 50 high priority actions and 62 moderate priority actions. Chapter 11 provides information on responsibility, resources and timeline for each action. As actions are completed, and new issues arise, identified actions may be updated with higher priority.

Chapter 1

INTRODUCTION

The *2018 East Montpelier Town Plan* reflects who we are (our values and goals for the future), provides general direction, and recommends actions that will enable residents to realize their expectations for the quality of life in their community. It chronicles a bit of our history, describes our present resources, and envisions our future as a town.

Purpose of the Town Plan

The *2018 East Montpelier Town Plan* is a policy statement for guiding future land use and community decisions within the town. This plan provides historical context, documents and analyzes present conditions, and identifies goals for the town's future.

Vermont's Planning Act, 24 V.S.A. Chapter 117, authorizes the preparation and adoption of municipal plans. The Act specifies the contents of municipal plans, as well as the process for their development. The *2018 East Montpelier Town Plan* was developed to meet these statutory requirements.

The plan addresses a number of issues that will impact the quality and character of life in the future. Included are discussions of population growth and characteristics, public utilities and facilities, housing, transportation, energy, natural and historic resources, and land use patterns.

The plan presents a long-term (10-20 year) vision of the future, but it is expected that this vision will be re-examined periodically. Vermont's Planning Act requires that municipal plans be reviewed, updated, and re-adopted every 8 years (recently increased from a 5-year cycle). Municipal planning is an on-going and continual process, as conditions, goals and progress are re-evaluated.

In addition to the statutory purpose, this plan is intended to serve a number of local purposes, including:

- Providing a comprehensive source of current data about the town for use by town officials, residents, businesses, and potential residents and businesses;
- Serving as a basis for a capital budget and program to guide infrastructure developments in the town;
- Providing a description of the town's development objectives for use in the State's Act 250 land use permitting process and the State Public Utility Commission's Section 248 permitting process;
- Providing a basis for updating the town's *Land Use and Development Regulations*; and
- Providing a common basis for discussions about the town's future.

1 Land Use Planning and Zoning Process

2 Land use planning in East Montpelier currently involves a number of town officials, as detailed
3 in the Town Government section of this plan. Briefly, the elected Planning Commission
4 develops and periodically updates the town plan and the town's *Land Use and Development*
5 *Regulations* (zoning bylaws and subdivision regulations). The Planning Commission may also
6 undertake other planning activities, including studies and plans. In recent years, the Planning
7 Commission has obtained several municipal planning grants to undertake zoning bylaw updates
8 and a village master plan.

9 The Selectboard is empowered to adopt the Town Plan, zoning bylaws and subdivision
10 regulations. They may also grant tax incentives to encourage business development or the
11 preservation of farm and forest.

12 The Zoning Administrator's role is to issue zoning permits and enforce the zoning bylaws. The
13 *Land Use and Development Regulations* specify when zoning permits are required, whether the
14 Zoning Administrator can issue a permit administratively, or whether the development
15 application or subdivision must be reviewed by the appointed Development Review Board. The
16 Development Review Board reviews applications for conditional uses, commercial site plans,
17 and planned unit developments. If the Zoning Administrator denies a permit, the applicant can
18 appeal to the Development Review Board.

19 The Selectboard has appointed other committees to address a range of concerns affecting
20 townspeople, such as the Capital Improvement Committee, Land Conservation Advisory
21 Committee, Forest Committee, East Montpelier Village Committee, and Energy Committee.
22 These and other committees can make recommendations to the Selectboard and/or Planning
23 Commission.

24 Major Progress Since the 2013 Town

25 ✓ The Planning Commission obtained a municipal planning grant to update the Flood
26 Hazard Regulations in the *Land Use and Development Regulations*. The Flood Hazard
27 Regulations were updated to address river corridors as well as floodplains. The
28 Selectboard adopted the updated Flood Hazard Regulations. Adoption of these
29 regulations made the town eligible for the highest level of state contribution to disaster
30 funding under the state Emergency Relief and Assistance Fund.

31 ✓ The Planning Commission updated and the Selectboard approved a variety of other
32 changes to the *Land Use and Development Regulations* recommended by the *2013 Town*
33 *Plan* and by town officials and committees. Changes included revisions to the
34 conservation overlay districts, revised groundwater withdrawal permit threshold,
35 provisions for administrative amendment of zoning permits, provisions for conceptual
36 site plan and conditional use review, and revised procedures for Certificate of
37 Compliance.

38 ✓ The Planning Commission obtained a municipal planning grant to develop a master plan
39 for East Montpelier Village that provides a basis for village-specific zoning. The

1 Planning Commission, with assistance from the Village Committee and input from many
2 town committees and organizations, prepared the *East Montpelier Village Master Plan*,
3 providing a vision, plan and proposed zoning changes for the village. The village master
4 plan has been incorporated into the 2018 Town Plan.

5 ✓ The Planning Commission was awarded a Municipal Planning Grant to review and
6 update town zoning districts. This work will start in 2018.

7 ✓ The Selectboard created the Capital Improvement Committee to inventory and assess
8 town assets and prepare a capital plan and budget.

9 ✓ The Selectboard reactivated the Energy Committee, which participated in a pilot project
10 with the Central Vermont Regional Planning Commission to develop a municipal Energy
11 Plan to meet new state requirements for “due consideration” in the state Public Utility
12 Commission’s permitting process.

13 ✓ The Town Administrator and Selectboard developed an official town website, which has
14 become an important resource for municipal government, town committees and the
15 community.

16 ✓ The Selectboard implemented the voter-supported recommendations of the Farm
17 Contract Study Committee, terminating town farm contracts in favor of the state’s
18 Current Use program.

19 ✓ Town voters approved annual funding for the *East Montpelier Signpost*, ensuring that it
20 continues to inform the community.

21 ✓ Town voters approved a contribution to Cross Vermont Trails Association to help
22 construct a bicycle and pedestrian bridge across the Winooski River as part of the Cross
23 Vermont Trail.

24 ✓ The Charter Committee developed a charter for the town, which was approved by town
25 voters and the State legislature.

26 ✓ The Park and Ride facility was constructed at the junction of US 2 and VT 14 in East
27 Montpelier Village.

28 ✓ Reconstruction work started on the VT 14 bridge over the Winooski River. Grants were
29 obtained to construct sidewalks, a signalized crosswalk, and bicycle lanes in conjunction
30 with this project.

31 ✓ The East Montpelier Village Center Designation renewal application was approved by
32 the Vermont Downtown Board.

33 ✓ The East Montpelier Elementary School renovation project was completed.

34 ✓ The Selectboard reduced the speed limit on Center Road in East Montpelier Center to
35 improve pedestrian safety in this hamlet.

36 ✓ The Selectboard held a community forum to discuss the current status and future of land
37 conservation in town.

38 ✓ The town acquired the Old LaPerle Farm property (48 acres) in East Montpelier Village
39 and established a study committee to evaluate options for this property. The study

committee is coordinating with the East Montpelier Senior Living Initiative for possible development of senior housing.

- ✓ Habitat for Humanity completed construction of an affordable home in East Montpelier.

Creating the 2018 Town Plan

In preparation for developing the 2018 Town Plan, the Planning Commission met with Central Vermont Regional Planning Commission staff in April 2017 to review the strengths and weaknesses of the 2013 Town Plan, as well as new statutory requirements. The Planning Commission decided to update the 2013 Town Plan, rather than start from scratch developing a new plan.

The Planning Commission reviewed and updated each section of the plan, and developed new sections as needed. Numerous knowledgeable individuals, town officials and members of various committees assisted with information for the updates. The Regional Planning Commission provided Census and other data updates, as well as new and updated maps. The plan was reformatted to incorporate new sections and improve online readability.

A draft of the 2018 East Montpelier Town Plan was presented for public comment at a public meeting in February 2018. At the Planning Commission's request, the Regional Planning Commission provided an informal review of the draft plan.

After incorporating edits based on comments, the Planning Commission held a public hearing on the revised draft plan in Month 2018. Comments at the hearing and submitted in writing were reviewed, and incorporated into the plan as deemed appropriate by the Planning Commission. The Planning Commission approved submission of the revised plan to the Selectboard in Month 2018.

The Selectboard held a first public hearing in Month 2018, and several recommended changes were incorporated for the final version of the Town Plan. On Month #, 2018, the Selectboard held a second public hearing and adopted the *2018 East Montpelier Town Plan*. The Selectboard has requested a formal approval of the plan by the Central Vermont Regional Planning Commission. The 2018 East Montpelier Town Plan will expire in Month 2026, but can be amended or readopted before that date.

Chapter 2

ABOUT EAST MONTPELIER

A. A LOOK AT THE TOWN

Town History

For more than a thousand years before European settlers came to the area, Abenaki Native Americans fished the Winooski River with rawhide line and hooks fashioned from wishbones, according to Frederick Matthew Wiseman in *The Voice of the Dawn*. Wiseman also writes “...beans were planted in groups of three or four seeds along with the corn and used the corn stalk as a trellis upon which to climb.” Hamilton Child’s *Washington County Gazetteer*, tells of the discovery of an Indian fishing and farming village on the banks of the Winooski opposite the mouth of the Kingsbury Branch.

The land that now comprises both Montpelier and East Montpelier was originally chartered to Timothy Bigelow and his associates in 1781. The fledgling legislature of what was then the Independent Republic of Vermont took the following action:

“In General Assembly” this committee reported, “Saturday, October 21, 1780.” “That, in our opinion the following tract, viz.: Lying east of and adjoining Middlesex, on Onion River, and partly north of Berlin, containing 23,040 acres, be granted by the Assembly, unto Col. Timothy Bigelow and Company by the name of Montpelier. Signed, Paul Spooner, Chairman.”

The same date as above the Assembly concurred with the recommendation of the report, and requested the governor and council to fix the price of compensation and issue a charter. This they at once complied with, and “stated the fees at four hundred and eighty pounds for the s’d land,” to be paid by Col. Bigelow or his attorney, in hard money, or its equivalent in Continental currency, on the execution of the charter of incorporation on before the 20th day of January next. Probably because the fees were not paid the first charter was not issued until August 14, 1781. This was the first grant recommended by the committee, and the first authorized by the General Assembly of Vermont.

— Washington County Gazetteer, Hamilton Child, 1889

Parley Davis, one of the first settlers of European descent in the area, as part of a team of three headed by his uncle Col. Jacob Davis, began to survey the town in 1787. Parley built a house that is still standing in East Montpelier Center.

The first half of the nineteenth century saw rapid growth as the population increased from 890 residents in 1800 to 3,725 in 1840 (figures include the population of Montpelier, of which East Montpelier was a part). The first settlers established farms on the high fertile plains. Three major settlements, Montpelier Village, East Montpelier Village (also called East Village) and

North Montpelier Village, developed along the Winooski River and its tributary, taking advantage of waterpower to operate gristmills, saw mills, and other small industries.

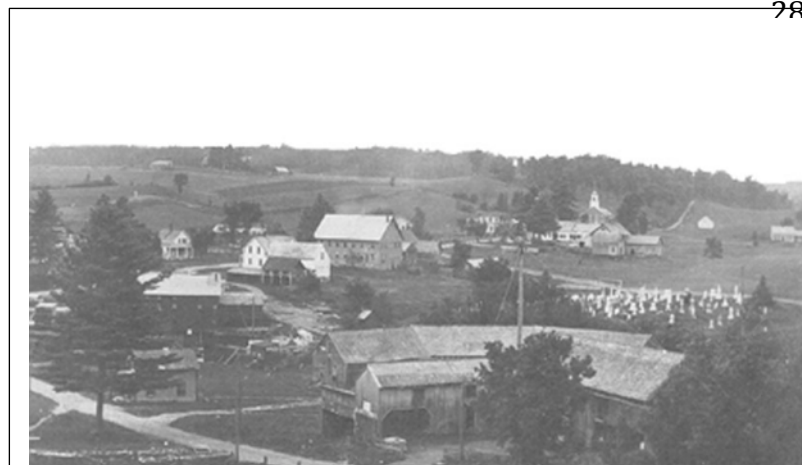
In 1848, residents of the Village of Montpelier became concerned that the subordination of village affairs to rural town government would curtail development in the commercial center and seat of state government. As a result, a group of village residents petitioned the legislature to set off the village and adjoining area into a new town, effectively splitting the town into what is now the City of Montpelier and the Town of East Montpelier. On November 9, 1848, sixteen days after they introduced a bill into the legislature, the Town of East Montpelier was officially created, without the consent of the people who would become East Montpelier residents.

By the late 1840s, there were over 3,500 sheep and 1,100 milk cows on more than 150 small farms in town. Colonel Nathaniel Davis built a large woolen mill in North Montpelier in 1838, and by the middle of the 1800's, the villages hosted tanneries (for processing animal skins), brickyards, blacksmith shops, and shoe shops. East Montpelier Village even boasted a distillery and a starch factory. In the early 1890s, Julius Wheelock built a shed to process granite hauled by teams of horse from the quarry in Adamant. The granite shed lasted until around 1930.

In the early 1870s, the Montpelier and Wells River Railroad began to operate passenger and freight trains with a stop at Fairmont Station in East Montpelier. The advent of railroads in the region considerably changed the lives of the town's inhabitants. Farmers could ship their products farther, people could more easily travel to distant cities, and local merchants could import wares from distant markets.

The area that was to become East Montpelier contained eleven school districts, each with its own one-room or two-room school and school board.

Farming dominated the town's economic activity. Subsistence farming during early settlement gradually gave way to commercial farming, as farmers specialized first in sheep and then in dairy cows. By the 1880s the town's landscape was dotted with substantial frame farmhouses, dairy barns, and a variety of outbuildings. With increasing specialization in the dairy industry and rail transportation available near the East Village, farmers built larger dairy barns and creamery



East Montpelier Village, c. 1908 (East Montpelier Historical Society Archives)

operations opened in both East and North Villages. Although most of the town's farmhouses date from 1820 to 1880, a new round of barn building began at the end of the nineteenth century and lasted until about 1912.

As western frontiers expanded, more Vermonters left their native state, while others moved to larger cities to find better employment. In the period from 1850 to 1890, the

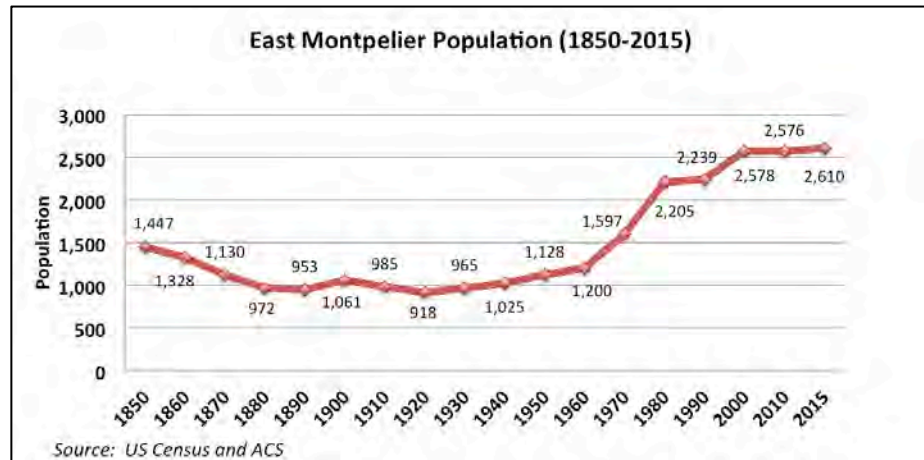
population of East Montpelier declined by 34 percent. East Montpelier retained some industries, most notably the woolen mill in North Montpelier Village. In the 1890s, there was a modest

upturn in population as western migration slowed and the mills in North Montpelier experienced a period of prosperity.

The population downtrend resumed after the turn of the century, reaching a low point of 1918 in 1920. The Great Depression of the 1930s slowed this exodus by boosting the relative attractiveness of rural life. The population experienced modest growth throughout the 1930s and 1940s. After World War II, growth began to accelerate; the population doubled from 1,128 in 1950 to 2,205 in 1980, as new residents, most of whom worked outside of town, sought a rural lifestyle. From 1980

to 1990, growth slowed to 2% for the decade. Moderate growth increased the population by another 15% in the 1990s, but in the years between 2000 and 2015, only thirty-two people were added. During the latter half of the twentieth century, development

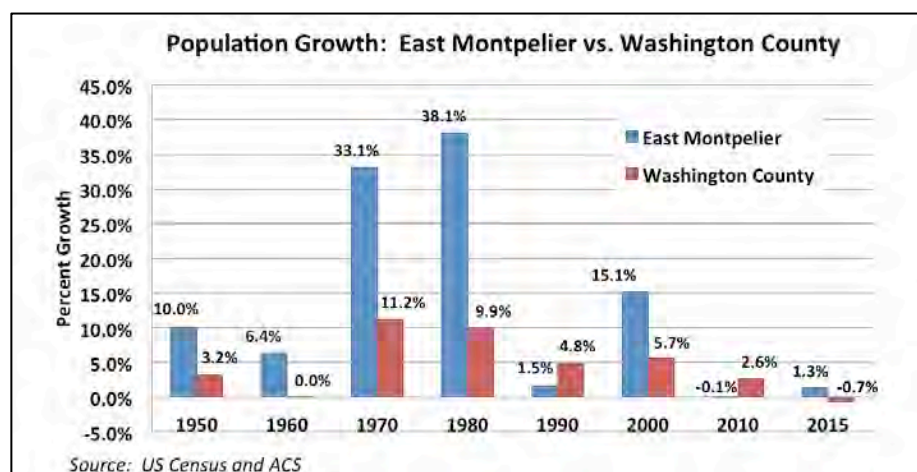
occurred largely outside the village areas, as former farms were divided to accommodate new residences. Mills that had been the focal point of the village areas were all closed by 1970. Although a few stores and businesses remained, most commercial and industrial development occurred outside the village areas on US 2 and VT 14.



The Town Today

In 2015, the town had an estimated population of 2,610. (Source: ACS 2011-2015).

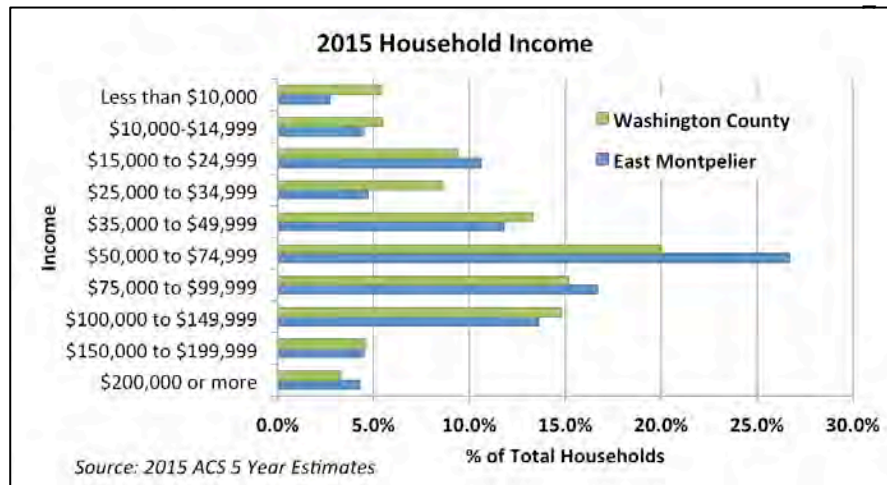
Washington County's population reflects similar trends, although the town has generally grown faster than the rest of the county. From 2000 to 2015, East Montpelier's population increased by 34 people (or 1.3%), while the population of Washington County decreased by 0.7%.



Predictions of future population growth are useful for planners, but the projections rely on a lot of assumptions that may or may not prove accurate. In 2013, the state published population projections from 2010 to 2030. The projections indicate that East Montpelier would have a

population of between 2,613 and 2,718 by 2030. Based on these projections, the town can expect modestly increasing population growth in the next decade.

Located near the two population and employment centers of Barre and Montpelier, East Montpelier provides only about 2.2 percent of the jobs in the region, according to data available for 2015. By comparison, Montpelier provides 28.8 percent and Barre City provides 16.0 percent of the region's jobs. (*Source: ACS 2011-2015*)



A comparison of income distribution for the town and county are shown in the accompanying graph. For the 5-year period 2010 to 2015, median household income in East Montpelier was \$66,324, compared to \$58,788 for Washington County. For the same period, 156 town residents were living at or below the poverty level.

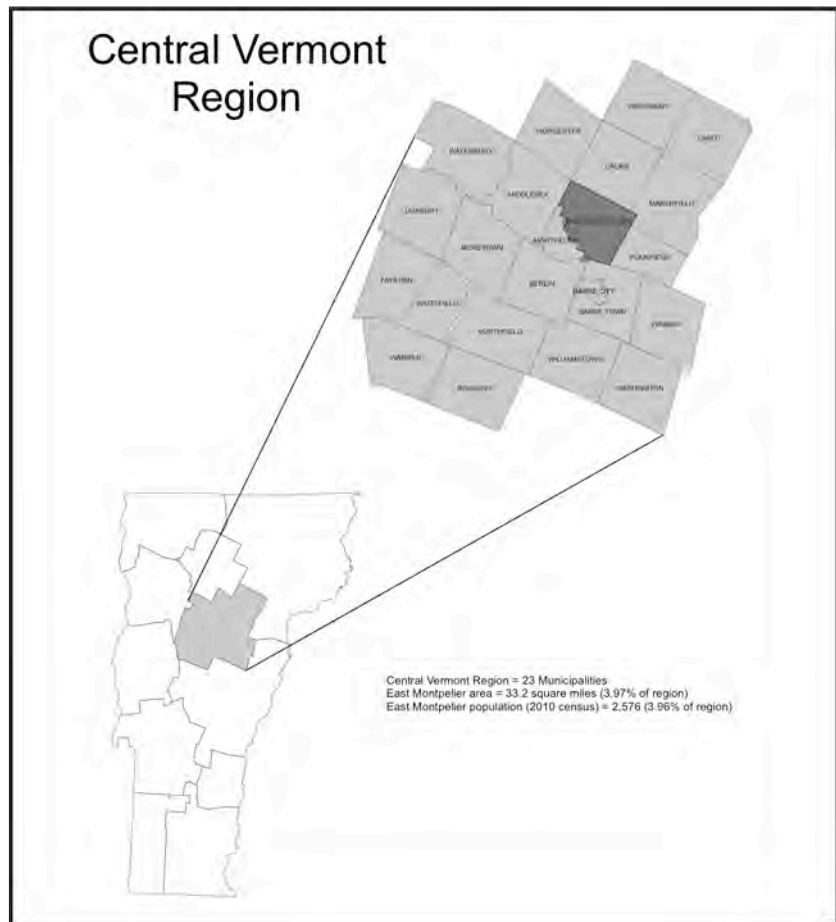


Rally in the Village, 2012 (Jean Vissering)

B. EAST MONTPELIER & THE REGION

History

During early settlement, many families in East Montpelier were largely self-sufficient. What they could not raise or make themselves, they purchased at one of the village stores or mills. Contact with other towns was limited, and regional services were virtually nonexistent. Until 1965, East Montpelier, like all towns in Vermont, had its own representative to the state legislature. One of the few areas in which regional interaction did occur was education. In 1910, the town joined a supervisory union with Calais and Woodbury. Today East Montpelier belongs to a five-town school district. County government was and still is largely concerned with legal issues — providing sheriffs and the court system.



Current Status

East Montpelier recognizes its part in the larger community, made up of neighboring towns, and the State of Vermont. The more urbanized population centers of Montpelier and Barre and the business districts of Berlin provide most of the area's job opportunities, shopping, restaurant, commercial services, sports facilities, health centers, social services, and cultural activities. Town residents also travel to the state's largest urban area (Burlington) for work, shopping, recreation and other activities. The regional transportation network plays a vital role with the movement of people, goods and services.

Like the other towns outlying these population centers, East Montpelier is primarily a rural residential community, contributing its well-educated labor force and an important segment of consumer demand to the surrounding region. With its farms, open spaces, forestlands and trails,

East Montpelier also serves as a recreational resource for the more urban areas in the region. Along the US 2 and VT 14 corridors, East Montpelier has a significant number of commercial establishments contributing to the region's economy.

East Montpelier Village provides space for a share of the region's residential growth. Undeveloped land in East Montpelier helps maintain the area's agriculture, forests, natural and wildlife resources and scenic beauty. The open land supports a wide variety of outdoor recreational opportunities for the larger community, including: the town trail system; a section of the Cross Vermont Trail; a network of Nordic ski, mountain bike and snowmobile trails; the town forest; and a pond for swimming.

Regional Governmental and Service Organizations

A large number of government service organizations and private not-for-profit groups operate on a regional basis, increasing the interdependence of East Montpelier with its neighbors.

Regional governmental and quasi-governmental bodies serving East Montpelier include:

- Central Vermont Economic Development Corporation
- Central Vermont Regional Planning Commission
- Central Vermont Solid Waste Management District
- Washington Central Supervisory Union
- Wrightsville Beach Recreation District

Many of the non-profit organizations providing services to East Montpelier and the Central Vermont region include:

- | | |
|---|--|
| • Capstone Community Action | • Good Samaritan Haven |
| • Central Vermont Chamber of Commerce | • Green Mountain Transit |
| • Central Vermont Adult Basic Education | • Green Mountain United Way |
| • Central Vermont Council on Aging | • Home Share Now |
| • Central Vermont Home Health and Hospice | • Kellogg-Hubbard Library |
| • Central Vermont Humane Society | • Montpelier Senior Activity Center |
| • Central Vermont Medical Center | • North Branch Nature Center |
| • Central Vermont Memorial Civic Center | • OUR House of Central Vermont |
| • Circle (formerly Battered Women Services and Shelter) | • People's Health & Wellness Clinic |
| • Community Connections | • Twin Valley Senior Center |
| • Downstreet Housing and Community Development | • T. W. Wood Gallery |
| • Family Center of Washington County | • Washington County Mental Health Services |
| • Friends of the Winooski River | • Washington County Diversion Program |
| • Girls/Boyz First Mentoring | • Washington County Youth Services |
| • Good Beginnings of Central Vermont | • Winooski Natural Resources Conservation District |

A list of private groups serving the region that have received some direct support from annual appropriations approved by the town's voters can be found in each of the annual Town Reports. In addition, many town residents support these organizations by volunteering their services and through private donations.

State Representatives

Washington County towns elect three state senators, furthering the mutual interests of the neighboring towns. East Montpelier and Middlesex form a legislative district with one state representative.

Compatibility with Other Plans

Vermont statute requires that town plans be compatible with approved plans of other municipalities and with the regional plan. For a plan to be compatible with another, it "will not significantly reduce the desired effect of the implementation of the other plan" (24 V.S.A § 4302(f)(2)).

East Montpelier's Planning Commission has reviewed the current Central Vermont Regional Plan and municipal plans of our surrounding communities to assess compatibility of East Montpelier's town plan with these other plans. The results of this review are summarized below.

Regional Plan

The Central Vermont Regional Planning Commission (CVRPC) amended and readopted the Central Vermont Regional Plan in 2016. This plan is scheduled for update in 2018. The regional plan was developed to be compatible with municipal plans throughout the region.

Our review indicates that this town plan is compatible with the Regional Plan.

Adjacent Municipal Plans

East Montpelier has eight adjacent communities as neighbors. Each of their adopted plans were reviewed to determine whether this town plan is compatible with our neighbors' plans.

As of this writing, four of the reviewed municipal plans have expired: Berlin, Marshfield, and Worcester, and Montpelier. Available draft plans from these towns were not reviewed for compatibility.

Adjacent Municipal Plans

- Barre Town Plan, adopted May 2014
- Berlin Town Plan, adopted March 2012
- Calais Town Plan, adopted February 2016
- Marshfield Town Plan, adopted September 2012
- Middlesex Town Plan, adopted March 2013
- Montpelier Master Plan, adopted September 2015
- Plainfield Town Plan, adopted February 2014
- Worcester Town Plan, adopted November 2007

No major conflicts or adverse impacts were identified that would "significantly reduce the desired effect of the implementation of the other plan." A draft copy of the *2018 East Montpelier Town Plan* has been provided to the Planning Commissions of each of the adjacent

communities to allow them an opportunity to review this plan and provide comments.
Comments received from neighboring communities have been incorporated into this plan.

Future Challenges and Opportunities

Town residents responding to the 2011 Town Survey identified East Montpelier's proximity to Montpelier and Barre as an asset. Our location allows us access to urban goods, jobs and services while living in a rural community, making East Montpelier a highly desirable place to live. Both Montpelier and Barre have worked hard to become centers of diverse housing opportunities as well as business centers. Increasing density in the village is a way to accommodate our share of growth, including affordable housing, while retaining our rural character.

Goals and Actions

➤ **Goal 2.1:** Participate in regional organizations and activities.

- ✓ **Action 2.1.1:** Maintain active representation on, and participation in, boards and commissions of regional organizations.

➤ **Goal 2.2:** Cooperate with neighboring communities to ensure plan compatibility, as well as mutual opportunities and challenges.

- ✓ **Action 2.2.1:** Consult with planning officials of adjacent towns to identify and resolve potential conflicts and to address opportunities for cooperation.

Chapter 3

TOWN GOVERNMENT AND FINANCE

A. TOWN GOVERNMENT

History

The first Montpelier Town Meeting was held on March 29, 1791. At that meeting, twenty-seven residents elected a moderator, town clerk, three selectmen, a treasurer, a tax collector, listers, and a fence viewer. From that time until 1849, what we now know as East Montpelier was part of the Town of Montpelier. In 1848, the State Legislature approved a division effective on January 1, 1849 and the Town of East Montpelier was incorporated.

Current Status

Traditionally, the town has conducted a Town Meeting on the first Tuesday in March. A public forum is held in late February/early March to discuss warned items. On the floor at Town Meeting residents hear and discuss reports from various town officers and committees, vote on the school budget, and decide on a standard slate of funding articles from, but not limited to, the Cemetery Commission, Four Corners Schoolhouse Association, and the Funding Request Study Committee. In addition, special articles appear in the town warning on such diverse subjects as buying a fire truck to funding land conservation. On the same day the town budget, funding articles over \$25,000, and the election of town officials are voted by Australian Ballot.

Town offices are located in a former two-room schoolhouse in the East Village. The offices were renovated and made handicapped accessible in 1988. The building now includes office space for town employees and provides adequate and well-utilized meeting spaces. The Town Office building is becoming too small for current space demands. The basement is currently unusable due to mold, making adequate storage space a significant problem. Several other village locations have been considered for a future town office, but never studied in detail.



Town Office on Kelton Road (Julie Potter)

In 2010, the Selectboard approved the creation of East Montpelier Fire District #1. The fire district encompassed an area roughly based on the location of properties served by the privately-owned Crystal Springs Water Company, including most of East Montpelier Village. The fire district was created with the expectation to purchase and operate the Crystal Springs system, but negotiations were unsuccessful and the Fire District was dissolved by merging with the town in 2017.

In early 2013 the town received a grant from the Vermont Council on Rural Development's Digital Economy Project that helped fund the creation of the town's website. The Selectboard developed, with citizen input, a website policy and privacy statement, and the site was molded into a viable information platform that covers all committees, warnings, minutes of meetings, notices and announcements along with town documents and the calendar. The website and Front Porch Forum serve as the online notice tools for town government activities. The Town Administrator serves as the webmaster.

Town Officials

Many talented and committed people have come forward to serve as town officials, almost all volunteers. The town encourages broad participation in government to ensure diverse representation, facilitate quorums and avoid conflicts of interest. Meetings of town boards and committees are open to the public, and minutes of the proceedings are on file at the Town Clerk's Office and the website.

Elected Officials

- The **Selectboard** consists of five members, 3 members serving for 3-year terms and 2 members serving 2-year terms. The Selectboard meets soon after Town Meeting each year to select a chair and other officers. The Selectboard is the town's legislative body, enacting ordinances, regulations and policies. It is responsible for overall management of the town, including town property and personnel, annual planning for maintenance of town roads, the annual town budget; and for appointing most non-elected local officials. Selectboard members receive an annual stipend.
- Each of three **Listers** serves a three-year term, one term expiring each year. The Listers are responsible for the valuation of all taxable property in town. The Listers are paid on an hourly basis.
- The **Planning Commission** is a board of nine members, each serving a three-year term. Three members are elected each year. The Planning Commission is responsible for development of the Town Plan, drafting town zoning bylaws, and effectively guiding East Montpelier's growth patterns. Zoning bylaws combine our town plan with state land use and development statutes to standardize the permitting process. Since 2012 Planning Commission members receive an annual stipend.
- Three **Auditors** are each elected for three-year terms, one term expiring each year. The auditors review the financial records of the town and report their findings in the form of an annual Town Report, which is distributed to the legal voters of the town at least ten days before the Town Meeting held each year in March. The Auditors are paid on an hourly basis.

- 1 • Care and management of the town's cemeteries fall to the **Cemetery Commission** with
2 five members elected to five-year terms, one term expiring each year. Annual activities
3 include the cleaning and repair of broken stones, fence repair, painting, mowing, and
4 signage.
- 5 • Voters annually elect both a **School District and Town Moderator** to run the Annual
6 and Special Town/School Meetings.
- 7 • Other elected officials include ten **Justices of the Peace**, along with a **First Constable**,
8 and if the voters so choose, a Second Constable. The Constables receive an annual
9 stipend.
- 10 • The **Board of Civil Authority**, responsible to assist with elections, the voter checklist,
11 and appeals from property tax assessment grievance decisions, is made up of the Town
12 Clerk, Selectboard, and Justices of the Peace.
- 13 • The **Town Board for the Abatement of Taxes**, responsible to hear property tax
14 abatement requests, is made up of the Board of Civil Authority, the Listers, and the Town
15 Treasurer.
- 16 • Additionally, **School District Officers** are elected at Town Meeting. Five
17 representatives serve on the board of the East Montpelier Elementary School (three 3-
18 year terms; two 2-year terms). There are also two who represent the town as School
19 Directors on the board of Union District 32 (3-year terms), along with representatives of
20 the other four towns.

21 **Appointed Officials**

- 22 • The **Town Administrator** prepares and monitors the annual budget and Capital Plan for
23 the Selectboard; provides grant and loan administration; prepares Articles of Warning,
24 town policies, and ordinances; assists with road issues, risk management, procurement,
25 personnel matters, and system administration.
- 26 • The **Town Clerk**, appointed for a one-year term, takes minutes at town meetings;
27 records, preserves, and certifies public records of the town; runs the local elections;
28 issues marriage, civil union, dog and hunting and fishing licenses; and maintains the list
29 of registered voters.
- 30 • The **Town Treasurer**, appointed for a one-year term, collects current taxes and maintains
31 the accounts for all the financial activity of the town.
- 32 • The **Zoning Administrator (ZA)**, recommended by the Planning Commission and
33 appointed by the Selectboard for a one-year term, issues zoning permits and enforces the
34 zoning bylaws. The ZA is the E911 Coordinator. The ZA acts as the town sewage officer,
35 working as a liaison with the State Wastewater Program that issues permits for on-site
36 wastewater treatment.
- 37 • The **Collector of Delinquent Taxes**, appointed for a one-year term, handles all aspects of
38 delinquent property tax collection.

- 1 • The **Town Services Officer** assists individuals within the town who require emergency
2 food, fuel, or shelter assistance when the Vermont Department of Social Welfare is not
3 available.
- 4 • The **Road Foreman** oversees a three-member crew and assists the Selectboard in
5 effectively using town Highway Funds to maintain safe and traversable roads.
- 6 • The **Municipal Assistant** provides support to the Selectboard, Town Clerk, Town
7 Treasurer, and Listers with the daily operations of the town.

8 The Road Foreman and Municipal Assistant are paid on an hourly basis. The other positions are
9 paid by salary. All positions receive benefits under the town's personnel policy.

10 Other appointed officials include the **Town Tree Warden, Town Services Officer, Town**
11 **Health Officer, Town Attorney, Forest Fire Warden, Emergency Management**
12 **Coordinator, Green Up Day Coordinator, Acting Zoning Administrator, Animal Control**
13 **Officer, and Assistant Animal Control Officer.** The health officer and animal control officers
14 receive annual stipends. The acting Zoning Administrator is paid on an hourly basis.

15 **Appointed Committees and Boards**

- 16 • The **East Montpelier Charter Committee** was first discussed at Town Meeting in 2013
17 when the Selectboard sought volunteers to explore strategies to make the town's
18 government more efficient. After further outreach through Front Porch Forum and other
19 postings, the Selectboard, on April 15, 2013, appointed eleven volunteers to serve on the
20 Charter Committee. The committee was charged with researching specific areas of town
21 government that might benefit from changes that could be accomplished through a
22 charter, such as changing some town officers from being elected to being appointed.
23 Unlike the election process in which an unqualified candidate could be elected,
24 appointments allow for vetting candidates to ensure job proficiency, such as experience
25 in modern electronic accounting procedures for the Treasurer position. A town charter,
26 approved by the town voters and passed by the legislature, is necessary for a town to
27 deviate from state law which calls for certain positions to be elected. The Town Charter
28 was approved by the voters and passed by the legislature in 2014, and by the same
29 process was amended in 2017. The charter calls for the Town Clerk, Town Treasurer,
30 and Collector of Delinquent Taxes to be appointed, and abolishes several obsolete
31 offices. Charter Committee documents are available on the town website.
- 32 • In 2010, the town formed a **Development Review Board (DRB)** to consolidate onto one
33 board the various permitting activities of the Zoning Board of Adjustment (ZBA) and the
34 Planning Commission. The ZBA was abolished, allowing the Planning Commission to
35 focus on the vision of the future of the town, leaving the DRB to handle the quasi-judicial
36 aspects of the zoning process. The DRB consists of nine members appointed by the
37 Selectboard, each serving staggered three-year terms. Three members of the Planning
38 Commission are appointed to the DRB and the remaining Planning Commission
39 members serve as alternate members of the DRB, available to fill in when regular DRB
40 members are absent.
- 41 • The **Capital Improvement Committee (CIC)** develops a Capital Improvement Plan
42 (CIP) to ensure that capital expenditures are identified and planned in advance so that

1 associated costs are predicted for the budget, thereby stabilizing financial impacts on the
2 taxpayers. Annually, the CIC presents a revised capital plan to the Selectboard to assist
3 in budget development and project planning.

- 4 • The **Conservation Fund Advisory Committee** reviews proposals to conserve land
5 involving allocations from the Town's Conservation Fund. Such projects may involve
6 local funding to purchase development rights from local landowners in order to preserve
7 our open, scenic, agricultural land. The Committee reviews project to ensure they are
8 consistent with the conservation and economic interest of the town in mind.
- 9 • Each year, a number of organizations and service agencies ask for funding from Vermont
10 towns. Rather than deliberate on individual requests at Town Meeting, East Montpelier
11 established a **Funding Request Study Committee** to review all applications and make
12 recommendations, which are then published in the Town Report and voted on at Town
13 Meeting.
- 14 • The **Recreation Board** sponsors activities for town residents, including swimming
15 lessons for children, and maintains the recreation field near the Elementary School.
- 16 • The Selectboard created the **Energy Committee** in 2008 to help guide the community in
17 areas of energy use and conservation. In particular, the Committee's directive is to work
18 toward the fulfillment of the energy goals and actions laid out in the Town Plan. The
19 Committee also leads the town's Act 174 energy planning effort.
- 20 • The **East Montpelier Village Committee** works to improve East Montpelier Village and
21 was given official standing as a town committee by the Selectboard in June 2013. The
22 Village Committee helped secure state Village Center Designation for the central area of
23 East Montpelier Village. The committee is currently working on the US 2 and VT 14
24 corridor sidewalk and shoulder improvements project for which the town received a
25 \$490,000 Bicycle and Pedestrian Program grant from the state.
- 26 • The East Montpelier Selectboard created **the Old Laperle Farm Property Committee**
27 in 2016 to develop options for use of the town-owned 48-acre parcel located at 3035 US
28 2, at the corner of US 2 and VT 14.
- 29 • The **Town Forest Committee** oversees the maintenance of the Town Forest and other
30 town-owned forests. It also assists the town with roadside cutting issues and provides
31 guidance to the schools on tree maintenance.

32 In addition, ad hoc committees are formed to meet specific needs. In 2000, the **Take Part**
33 **Committee** produced "About East Montpelier," an informational booklet including a street map
34 and a guide to town activities and services, and researched ways to increase citizen involvement
35 in local government. The **Jean Cate Community Fund Committee** produces an updated
36 version of the booklet, available at the town office building and on the town's website.

37 Local citizens are appointed to represent the town on the **Central Vermont Regional Planning**
38 **Commission** and its **Transportation Advisory Committee**, **Central Vermont Solid Waste**
39 **Management District**, **State Police Community Advisory Board**, **Four Corners Schoolhouse**
40 **Association**, and **Wrightsville Beach Recreation District**.

Goals and Actions

- **Goal 3.1:** Ensure that town government effectively represents the interests of townspeople.
 - ✓ **Action 3.1.1:** Encourage residents to participate in town government and activities.
 - ✓ **Action 3.1.2:** Maintain regular communication among town officials, committees, and the public.
- **Goal 3.2:** Ensure that town government responds to the increased complexity of the issues it faces.
 - ✓ **Action 3.2.1:** Evaluate the evolving requirements of local government and the most appropriate structure of staffing to meet these needs.



Town Meeting (Alex Brown)

B. TOWN FINANCE

History

For more than 250 years East Montpelier has taxed its residents to finance road building and maintenance, public cemeteries, administration and, until 1967, support of the poor. Responsibility for funding the schools rested largely with the town's eleven school districts.

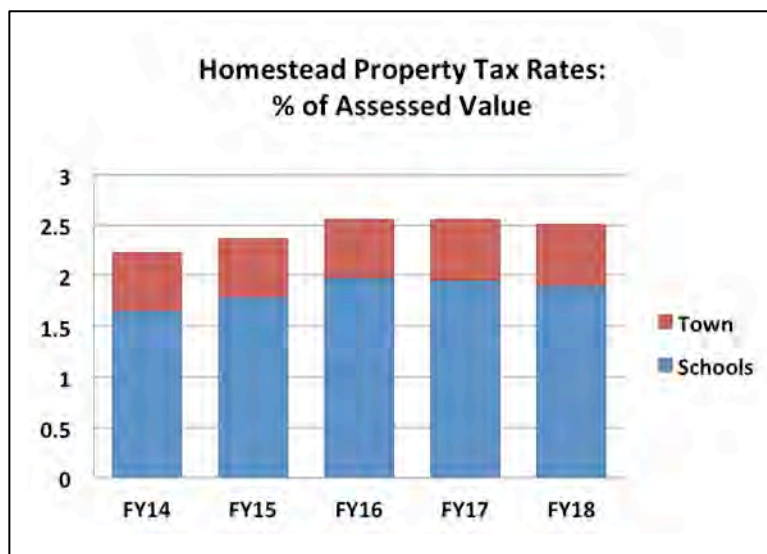
The town initially taxed improved real property and personal property, including livestock, watches, and furniture, as well as "polls," a person's earning capacity, and "faculties," his or her trade or profession distinct from farming. Highway taxes were paid through labor on the roads — the state required each man to work on the roads four days in the spring and fall of each year or pay the equivalent in cash.

During the nineteenth century, taxes remained relatively stable with "poor expense" the greatest burden except during the Civil War, when the town went into debt to pay war bounties. With little increase in population for nearly a century, the town grand list did not grow significantly until 1950, but taxes increased progressively except during the Great Depression of the 1930s. In 1935, a high level of delinquent taxes forced the town to issue bonds to finance its indebtedness.

From 1950 to 2000 the grand list expanded exponentially as the population more than doubled, increasing 129 percent. In 2009, the town was required by the state to conduct a town-wide reappraisal of property values. To complete the reappraisal, the town contracted with an independent assessor firm in Vermont. The grand list of property for taxation increased 82 percent, growing from \$156,330,100 to \$284,162,550 in 2010, while the homestead tax rate decreased 43 percent, from \$2.94 to \$1.69.

Current Status

Property taxes continue to be the largest source of revenue to cover the town's municipal and school expenses. For fiscal year 2018 (FY18), the homestead tax rate is \$2.50 or 2.5 percent of assessed value. That means a property valued at \$100,000 will have a tax bill of \$2,500. In FY18, the town tax bills total just over \$7.282 million, 75 percent of which goes to school funding. Details of tax income and expenditures are in the annual Town Report.



In 2003, Education Funding Act 68 amended the education funding system created by Act 60 of 1997. Union Districts are fully included for FY 2009 as a result of Act 130 of 2004. Under Act 68, the state's Education Fund provides monies to school districts in two major categories: Categorical Grants and the Education Spending Portion of the school district budgets. The town contributes to the state's Education Fund through the homestead property tax and the non-residential education property tax. The district's education equalized tax rate is determined by comparing the state's base education spending amount per equalized pupil to the district's education spending per equalized pupil. The state education funding methodology includes income sensitivity provisions that allows many residential taxpayers to get a portion of their property taxes adjusted downward so that the taxes are more reflective of income than property value.

The Tax Department's division of Property Valuation and Review (PV&R) annually determines the Common Level of Appraisal (CLA) for each town. Using actual sales data and statistical analysis PV&R determines how close a town's grand list comes to what it would be if all properties were listed at 100% of fair market value. The CLA is expressed as a percentage. For FY18, East Montpelier's CLA is 94.94%.

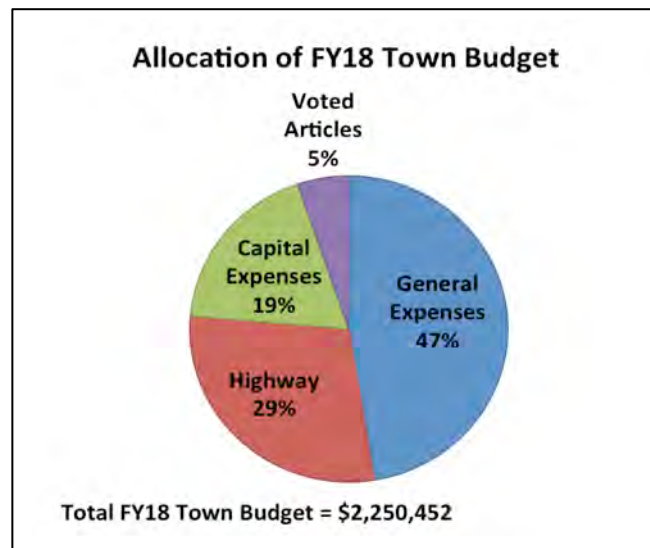
To ensure that state education property taxes are all assessed on the same basis, the Tax Commissioner is directed by law to set the tax rates in each municipality by dividing tax rates for nonresidents and homesteads by the municipality's CLA. The East Montpelier-specific homestead education rate is derived from a combination of the EMES budget and the town's pro-rata share of the U-32 budget. A recent law may alter the methodology. 2015's Act 46 could result in the town being part of a unified school district for all grades with a single budget and multi-town education tax rate.

Town Expenses

The town's biggest expense category is the highway budget, including paving (\$922,342 projected for FY18).

General expenses are projected to be \$1,045,519. General expenses include payroll and related employee costs, town operating costs, repair and maintenance of the Municipal Building, loans and interest expenses, dues to various state and regional organizations, and budget requests for items such as the Fire Department and Ambulance Service, as well as other items are voted as separate articles

In August 2013, the Capital Improvement Committee (CIC) was created to develop a Capital Improvement Plan (CIP) for the town. The purpose of a CIP is to ensure that capital expenditures are identified and planned in advance so that the associated costs are also planned and budgeted for. By planning for capital expenditures, the financial impacts on town taxpayers can be stabilized, and the timing of payments can be

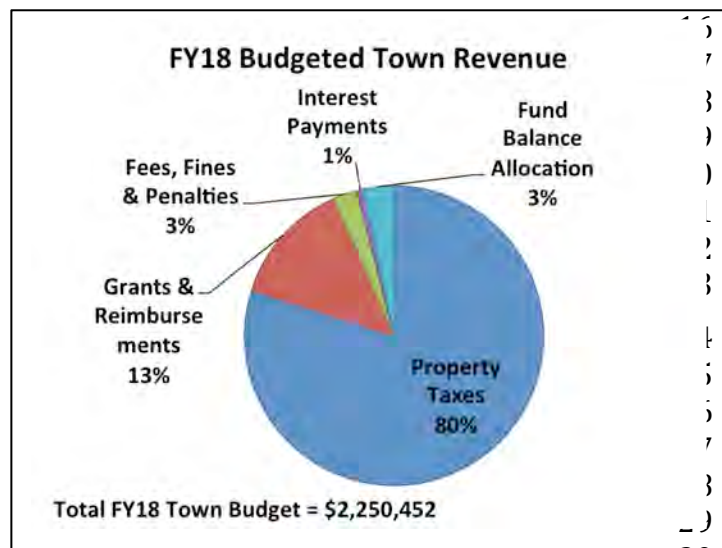


flexible. Capital expenses can be paid from accumulated funds (prior taxes), current taxes or loans (future taxes) or any combination of these.

The CIC inventories and evaluates the Town's capital assets, including existing buildings, vehicles, heavy equipment and paved highways. This information is used to establish a schedule of the costs for major maintenance and/or replacement. The CIC continues to solicit information from all town residents about capital projects that are envisioned for the future. It is interested in projects at any stage of development from a conceptual idea to a shovel-ready project. There is also a segment of the CIP that covers the town matches for grants and unexpected opportunities.

The CIC continually reviews and revises the CIP and uses it to develop a capital budget amount, which is presented to the Selectboard for inclusion in the next year's town budget. The Selectboard reviews the CIP and capital budget amount developed and recommended by the CIC. The Selectboard then determines the capital contribution to be included in the next year's budget and adopts a CIP that reflects that contribution. The CIP is used by the Selectboard to guide its use of the Capital Reserve Fund.

Town Revenues



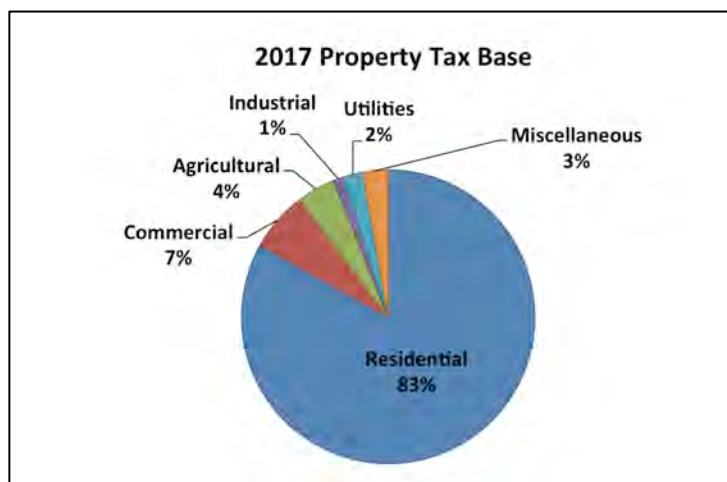
The town operates on an annual budget of approximately \$2.25 million (excluding grants, special projects, and schools). Property taxes make up 80 percent of revenue. The other 20 percent comes from various fees, interest payments, loan repayments, and state funding.

Most of the revenue in town is from property taxes, and the tax base in East Montpelier is largely residential. In 2017, nearly 85 percent of the town's total assessed property value was derived from single- and multi-family residential properties. It is

important to note that for those townspeople whose income has not matched tax-rate increases or inflation, especially farmers and those on fixed incomes, property taxes are a substantial burden.

Other sources of town revenues include: grants and reimbursements; fees, fines and penalties, and interest payments.

In order to address the problem of the property-tax burden, the state established tax relief programs including the Current Use Valuation



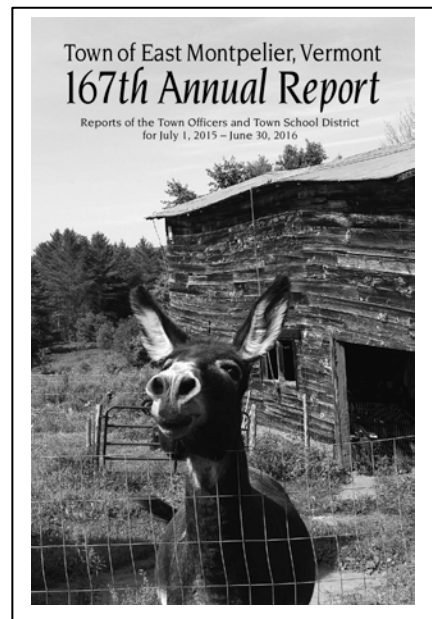
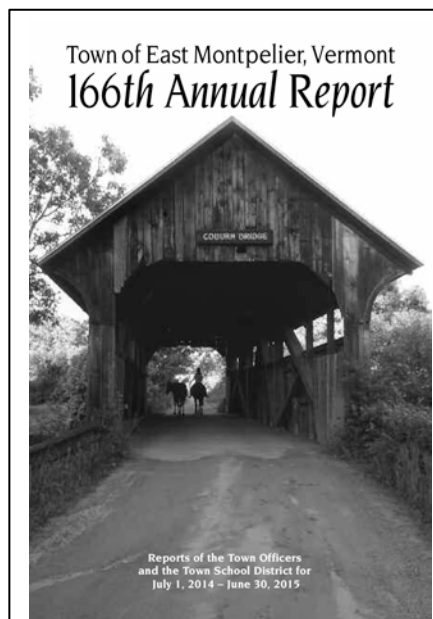
Program, and the Act 60 property-tax rebate. Additionally, in 1989, East Montpelier established a Conservation Fund, which, in combination with various state and federal grants, can be used by the Selectboard to buy land development rights in conjunction with various land preservation organizations. These tax relief programs have allowed some farms to remain operational, thereby retaining valuable agricultural and forestlands.

In 2017, there were 109 parcels of qualifying agricultural and managed forest land and farm buildings in the state's Current Use appraisal program, exempting \$17,088,023 of assessed property value. Under the Current Use "hold harmless" system, the state covers the education tax portion of the Current Use program's exempted value and reimburses the town for the lost local tax revenue. There are also 33 parcels (3,786 acres) of privately owned land in permanent conservation.

Residents have debated whether or not commercial development relieves the tax burden on residential property, as well as the impacts of land conservation on property taxation. Townspeople have empowered the Selectboard to both enter into tax stabilization agreements with new industrial and commercial operators, and to spend Conservation Funds to buy the development rights of agricultural parcels. Anticipated effect on property taxes has not been the determining factor in land use planning. A healthy, sustainable community strives for a balance between types of land use.

Goals and Actions

- **Goal 3.3:** Maintain and improve core municipal facilities and services in a fiscally responsible and sustainable manner.
 - ✓ **Action 3.3.1:** Utilize the capital plan and budget process to ensure that on-going and proposed capital projects are appropriately planned and financed.
 - ✓ **Action 3.3.2:** Pursue relevant grant opportunities to assist with funding needed town projects.



Chapter 4

COMMUNITY RESOURCES

A. TOWNSPEOPLE

Neighborliness and Community Assembly

In earlier days, neighborliness was a matter of social intercourse, economic necessity and survival. Farmers within a neighborhood shared or traded equipment and work such as butchering, harvesting, and cutting and hauling ice in the winter. The need to help the sick, the young, the elderly, and the destitute triggered an altruistic response.

Community assembly centered around the town's many school districts and was therefore more local than town-wide. People packed their neighborhood schoolhouses to hear scholars speak pieces on Christmas, Memorial Day, and graduation. They even on occasion returned to school for an afternoon church service conducted by a Montpelier preacher. This pattern of local gathering continued well into the twentieth century until the automobile expanded the possibilities.

Today, a strong sense of helping those in need still prevails—victims of fire or tragedy, the bereaved and, to some extent, the lonely. But as more residents work outside the home and town, and as transportation has become easier, social events are less focused on the near-neighborhood. People move more frequently and sometimes make little effort to get acquainted with new neighbors.

Nevertheless, East Montpelier still carries on a strong tradition of neighborliness, keeping in touch with fellow townspeople and taking care of those facing hardships. Town-wide events such as Town Meeting, school activities, and church suppers are popular, and in some neighborhoods, people get together for potluck suppers or cookouts.

East Montpelier has a rich heritage of community participation and leadership, dating from its beginnings as part of the town of Montpelier. After East Montpelier



Dave Coburn History Talk, 2016 (Julie Potter)

and Montpelier became separate towns in 1849, the fledgling farm town was quick to establish town officers and elect a legislative representative. A rich network of special skills and talents of its citizens was already in place.

Current Status

Today the structure of town government has expanded, and many townspeople volunteer for positions that require a substantial commitment. From keeping our heritage alive at the Historical Society to volunteering for the school programs, townspeople still view the town's business as everyone's responsibility.

Beyond that, an abundance of skills and talents arise among the citizenry. Some individuals are well known for their knowledge of town history, for instance, or because they know where to find rare wildflowers or a fox's den. Some have traveled widely and will share their experiences; others bake bread or knit comforting shawls. People with leadership skills guide the town's organizations.

Asked what people like most about living in East Montpelier, among the most common responses were "neighbors" and "sense of community." These values are manifest in the neighborhood potlucks, community projects, or when neighbors help each other keep an eye on the neighborhood.

Active Groups in Town

The town's only one-room schoolhouse in its original configuration, the Four Corners Schoolhouse is a welcoming space for community gatherings. The **Four Corners Schoolhouse Association's** (FCSHA) board of directors maintains the building and manages the schedule of its use for meetings and activities. In addition to providing affordable space for birthday parties and other celebrations, the building hosts a popular exercise class twice a week, the Sunday Singers once a month and occasional meetings for groups such as the Retired Teachers Association

East Montpelier Trails, Inc. works with the town, landowners, and trail users to create and maintain a network of recreation trails linking many parts of town, and even connecting with trails in other towns (see <http://emtrails.org/>).

The **East Montpelier Historical Society** meets monthly from February through November and sponsors a monthly program of lectures and activities on local history. It also maintains a revolving display at the Town Office, and participates in the annual Vermont History Expo.



Started in 1990, the **East Montpelier Signpost** is a bimonthly publication that keeps residents informed about people and happenings around town. It includes schedules and abstracts of the meetings of town boards

and committees, vital statistics, and articles about people and new businesses in town. The Signpost is mailed to all town residents and has an active website: www.emsignpost.com.

Front Porch Forum now provides an active on-line opportunity for town residents to announce events, request help or let people know about items for sale.

The official **town web site**, www.eastmontpeliervt.org, serves as the face of the town to the outside world. It provides residents as well as outsiders information about the town including links to important town documents like the Town Plan, zoning regulations, ordinances, and meeting minutes.

The **East Montpelier Senior Living Initiative, Inc.** (EMSLI) is dedicated to developing housing for seniors within or near East Montpelier Village so that seniors can remain in town. They are currently working with the Old LaPerle Farm Study Committee to develop senior housing on property in East Montpelier Village that was purchased by the Town in 2015.

The **Jean Cate Community Fund Committee** is dedicated to fostering a sense of community and participation in local government and town activities. They regularly update a booklet explaining Town Meeting and local government called *What You Need to Know about East Montpelier* (available at <http://eastmontpeliervt.org/documents/>). They also provide a free lunch on Green Up Day, donate to Front Porch Forum, and sponsor an informational coffee hour for new voters before Town Meeting Day.

The **Town Services Officer** assists individuals within the town who require emergency food, fuel, or shelter assistance when the Vermont Department of Social Welfare is not available. The Selectboard appoints someone to this position each year.

There are a number of other active committees in town. The **East Montpelier Village Committee** has been active for many years and is dedicated to enhancing our primary village and making it a desirable place to live, work and do business. The **Forestry Committee** is active in maintaining our Town Forest as a productive forest and place to recreate. The **Friends of Coburn Pond** are dedicated to protecting Coburn Pond for the enjoyment of the public and for protecting the ecosystems and wildlife of the surrounding area. The **Recreation Board** sponsors sports and activities for town residents of all ages.

Goals and Actions

➤ **Goal 4.1:** Promote a sense of community through educational and social opportunities and gathering places.

✓ **Action 4.1.1:** Provide information on town activities and how residents can participate.

✓ **Action 4.1.2:** Support use of the *East Montpelier Signpost* and Front Porch Forum to inform residents about community events, issues, resources and townspeople.

✓ **Action 4.1.3:** Organize periodic community-wide events to provide information and encourage discussion on topics relevant to the town, or to showcase community resources.

- 1 ➤ **Goal 4.2:** Keep the Town Offices in East Montpelier Village.
- 2 ✓ **Action 4.2.1:** If a new Town Office building is needed, it should be located in East
- 3 Montpelier Village.

4

5



Rally for the Village 2016 (Julie Potter)

B. COMMUNITY HEALTH

Vermont is one of the healthiest states in the nation. Nevertheless, health is becoming an increasing concern at the individual, municipal and state level. Healthcare now represents approximately 20 cents of every dollar spent in Vermont, and one in three Vermont jobs is in the health sector. Health affects all aspects of our lives and communities. It includes physical as well as mental and emotional health.

East Montpelier is a relatively healthy place to live, offering access to a network of safe walking and biking trails, locally-available fresh and healthy food, access to a good school system that fosters a strong sense of respect, high-quality medical care in the region, and a community that is quick to lend a helping hand to those in need.

Many factors contribute to a healthy community. Some considerations include:

- **Exercise:** East Montpelier offers a range of opportunities for physical activity including sports programs for children, exercise classes at a local Senior Center and by the Four Corners Schoolhouse Association, and an extensive network of safe trails suitable for walking and/or bicycling. Improvements are needed in both pedestrian and bicycle networks, especially within East Montpelier Village. New sidewalks have improved walkability, but sidewalks, paths and bike routes are needed to link the historic center with the Upper Village and with the Elementary School.
- **Healthy Food:** Citizens have access to an abundance of healthy fresh food within the community and the region. Our school systems emphasize healthy meals. High quality meals are also served at the Twin Valley Senior Center and in nearby churches. Meals on Wheels programs can bring food to those who are unable to leave their homes.
- **Water Quality:** Safe drinking water is essential to good health. East Montpelier has an abundance of good quality groundwater. Protecting it through land use regulations, improving the Crystal Springs water system and making it available to more homes and businesses, are important goals of this plan.
- **Air Quality:** Generally, Vermont's air quality is high, though there is no specific data for Central Vermont or East Montpelier. Local sources of air pollutants are closely related to energy use, particularly motor vehicles and heating systems. A greater shift to alternative transportation (such as walking, bicycling and public transit), energy conservation and renewable energy use will help protect our air quality.
- **Sense Of Community:** Feeling a sense of belonging and worth is vital to a sense of well-being. East Montpelier has a strong sense of community and is generally welcoming to all. There are strong social networks within many of town's neighborhoods. Improving the diversity of the community and providing local gathering places and community events can help foster the sense of community.
- **Diverse Housing Options:** Having a home is considered important to a sense of personal stability. East Montpelier needs a more diverse range of housing options, especially homes that are affordable and near services and public transportation. The

East Montpelier Village Master Plan strongly encourages new housing types and facilitates this through allowing smaller lot sizes.

- **Economic Opportunities:** Poverty is strongly linked to poor health. Providing economic growth within the community will help provide employment within easy reach of local residents. The quality of the education system helps ensure that the next generation is prepared for the economic opportunities of the future.
- **Preventing Smoking And Substance Abuse:** Smoking and substance abuse are significant health problems in Vermont. Some Vermont towns, such as Montpelier, prohibit smoking both in public buildings and outdoor public spaces. East Montpelier prohibits smoking in public buildings. While East Montpelier has very limited outdoor public spaces, these policies should be considered, especially as East Montpelier Village grows.
- **Proximity to Health Care Facilities:** The central Vermont region is blessed with a broad range of health-care facilities. The Plainfield Health Center and UVM Health Network offer free shuttles to and from many area medical service providers.

Goals and Actions

- **Goal 4.3:** Maintain and improve the overall health and wellbeing of East Montpelier residents.

This goal cuts across many other areas. See actions for:

- Community Resources (4.1.1, 4.1.2, 4.1.3, 4.4.1, 4.5.1, 4.5.2, 4.7.1, 4.7.2, 4.11.1);
- Public Services (5.1.1, 5.2.1, 5.3.1, 5.3.2, 5.4.1, 5.4.2);
- Infrastructure (6.2.1, 6.2.2, 6.2.3, 6.3.1, 6.7.1, 6.8.3, 6.14.1);
- Economic Development (7.4.1);
- Housing (8.1.1, 8.1.2, 8.1.3); and
- Natural Resources (9.9.1, 9.9.2, 9.10.1).

C. RECREATION

History

Although their workdays were far longer than ours are today, the first settlers of East Montpelier engaged in a variety of recreational activities that included dances, plays, games, singing, music, hiking, and picnicking. All of these served to relieve their heavy work schedules. As in most small towns, group recreation often centered around church and school activities. Suppers and bazaars helped raise church funds, although their greatest benefits probably were social and recreational. School functions served to celebrate holidays and student achievements. In so doing, these activities provided recreation and fostered community spirit.

Current Status

East Montpelier has many, varied recreational sites and opportunities within the community.

Inventory of Recreational Properties Within East Montpelier

Outdoor Recreational Spaces

- **Town Forest:** 96.4 wooded acres; trail entrance on Haggett Road. There is a network of walking trails, originally cleared in 1989 by Town Forest Committee and volunteers, which connect with other town trails.
- **Baird property:** 50-acre old growth forested parcel owned by the town since about 2008; site is traversed by an all season multi-use recreational trail connecting East Montpelier with the City of Montpelier.
- **Benton property:** 10.4-acre parcel off US 2 owned by the town since 2010; the Cross Vermont Trail has an easement on a portion of the site.
- **Soule property:** 5-acre parcel along Coburn Road owned by the town since 2012; the site which has about 1,700 feet of frontage along the Kingsbury Branch includes a small area for parking to allow car top boat access to the river, picnicking, wildlife viewing and a snow machine trail.
- **Recreation Field:** 12 acres on Vincent Flats Road adjacent to elementary school. Approximately two acres are open land used for two baseball fields and two soccer fields. Because the remaining land is a Class 2 wetland with two streams running through it, further development of this space is limited to a hiking trail.
- **Community Playground:** 18 acres located at the elementary school; about half-wooded, half-open land. Playground equipment was upgraded by a committee of town and school people in the fall 2008 and the fall 2011.

- 1 • **Wrightsville Beach Recreation Area:** Located off VT 12 in Middlesex; includes a 300-
2 foot sand beach, picnic area, nature trails, grassy play area, and restrooms. This area is
3 managed by a four-town recreation district comprising East Montpelier, Middlesex,
4 Worcester, and Montpelier and each town appoints a representative to the district.
- 5 • **North Montpelier Pond Fish and Wildlife Access Area:** The pond is located in both
6 East Montpelier and Calais. The access area is located on VT 14 near the Calais town
7 line; owned and maintained by the state
- 8 • **Coburn Road Swimming Hole (Coburn Pond):** Located off Coburn Road between
9 Cate Farm Road and US 2, this six acre pond has been visited and used by town residents
10 and others from central Vermont as a swimming hole for many years. The pond, formed
11 years ago during the active years of sand and gravel quarrying by a private company and
12 more recently protected by concerned citizens through the Act 250 process, Coburn Pond
13 is found on a 76 acre site owned by the Vermont Agency of Transportation. The pond
14 offers clear water for swimming, fishing and non-motorized boating. The remaining 70
15 acres are divided by the Winooski River. The 41 acres across the river are wooded and a
16 deeryard. The 29 acres of land surrounding the pond is partially wooded and is available
17 for walking, cross country skiing and wildlife viewing.
- 18 • **U-32 Middle and High School Playing Fields and adjacent land:** Gallison Hill Road;
19 facilities include football, softball, baseball, field hockey, two soccer fields, running
20 tracks, four tennis courts, ropes course, and cross-country ski trails. Adjacent land
21 provides hiking and more ski trails. All land is jointly owned by a five-town school
22 district comprising East Montpelier, Berlin, Calais, Middlesex, and Worcester.

23 Indoor Recreational Spaces

- 24 • **East Montpelier**
25 **Elementary School:**
26 Located on Vincent Flats
27 Road, this 16-classroom
28 building with library and
29 gymnasium is available for
30 resident use when not
31 scheduled for school use,
32 subject to school policy.
- 33 • **U-32 Middle and High**
34 **School:** Located on Gallison
35 Hill Road, the facility
36 includes classrooms, art
37 studios, library, auditorium,
38 and gymnasium; available
39 when not scheduled for
40 school use.
- 41 • **Four Corners Schoolhouse:**
42 The historic one-room schoolhouse near the elementary school hosts accessible



Kids in elementary school gym (Terry Allen)

community space, and hosts a range of programs and events from slide shows to exercise classes for seniors. It is managed by the Four Corners Schoolhouse Association.

- **Twin Valley Senior Center:** On US 2, the Center provides classes and activities, as well as meals and other services.

Organizations Providing Recreational Opportunities

Several groups oversee a variety of recreational opportunities in East Montpelier: The East Montpelier Recreational Board, the Four Corners Schoolhouse, and the Friends of Coburn Pond. In addition the East Montpelier Trails Incorporated (EMTI), the East Montpelier Gully Jumpers, and the Town Forest Committee provide a variety of trails, which are discussed in the Trails section.

East Montpelier first established a **Recreation Board** as a formal part of town government in 1965. This seven-member board is appointed by the Selectboard for three-year terms. These volunteers are in charge of maintaining and improving the recreation field next to the elementary school, and offering programs of interest to all citizens of town. Programs currently sponsored by the Recreation Board include a swimming lesson subsidy for participation in the Montpelier Recreation summer swim program, an annual Easter egg hunt and, beginning in the fall of 2007, running the youth soccer and basketball programs for residents in kindergarten through sixth grade. The Recreation Board also has a liaison who works with the local baseball league to offer baseball and softball to town youth each spring. These activities and programs are funded by an annual appropriation in the town budget as well as participation fees for youth sports. Funds are also available from the Carlton Smith Endowment Fund. The Recreation Board maintains a website at: <https://sites.google.com/view/eastmontpelierrecreation>.

In 2012, the Recreation Board surveyed townspeople in an effort to determine what other programs would be of interest to the community (see Appendix C). The survey showed general approval of existing programming, but also a lack of awareness of specific programs, so the Board has worked to do a better job of marketing its programs. There was significant enthusiasm among survey respondents for additional programs directed at the town's general population, not just youth. The Recreation Board is currently exploring several additional programs and events that offer recreational opportunities to all residents of East Montpelier and all levels of physical fitness. The Board is considering expanding the uses on the existing 12-acre property adjacent to the school. Ideas include a cross-country ski loop, an amphitheater, and connections to other town trails. The school gymnasium is usually fully booked in winter, and the Board is looking for other possible venues for indoor space for basketball and volleyball.

The **Four Corners Schoolhouse Association** provides an accessible community space and a range of programs in East Montpelier's only one-room schoolhouse in its



Four Corners Schoolhouse
(Doug Kevit-Kyler)

original configuration. Educational presentations, creative events, local committee meetings, social events, concerts, an exercise group, and the like are held at the schoolhouse. The Association posts news of special events on Front Porch Forum.

The Four Corners Schoolhouse Association is a not-for-profit organization and has tax-exempt status. Members of the Association are town residents. East Montpelier groups such as the Trails Committee and the Historical Society can use the schoolhouse without charge. Individuals can rent the space for a very small fee. It is available year round and for day and evening activities.

Located on US 2 in East Montpelier, the **Twin Valley Senior Center** serves seniors 55 years and older living in Cabot, Calais, East Montpelier, Marshfield, Plainfield and Woodbury. They provide meals, classes, activities and many other services to area seniors.

(<http://www.twinvalleyseniors.org/>)

The **Friends of Coburn Pond** are not a recognized town committee, but they formed to ensure on-going access to and protection of the Coburn Pond property. This property is currently owned by the Vermont Agency of Transportation. Its primary purpose is to serve as wetlands mitigation. However, townspeople retain a right to use the property for walking and swimming.

Other organized recreational organizations in East Montpelier include **East Montpelier Trails Inc.** and the **East Montpelier Gully Jumpers**. **Morse Farm Ski Touring Center** on County Road has 15 miles of cross-country ski trails and 2.5 miles of snowshoe trails, providing a regional resource for active winter sports enthusiasts. These trails organizations are discussed in the trails section of this plan.

Hunting and Fishing

The open rural landscape of East Montpelier offers a range of hunting and fishing opportunities for local residents and individuals from around the region. Although there are not vast areas of publicly owned land opened to hunting, trapping and fishing, landowners generally allow for these activities to take place on their lands and fields.

The richness of game in East Montpelier includes healthy populations of white-tailed deer, wild turkey, and both waterfowl and upland birds.

Fishing opportunities also exist for anglers of all levels along the Winooski River, North Montpelier Pond, and the smaller streams and brooks throughout East Montpelier.

For regulations and rules regarding hunting and fishing hunters and anglers should refer to the Vermont Fish and Wildlife Department (www.vermontfishandwildlife.com).

Water Recreation

Rivers, streams, lakes and ponds are commonly enjoyed for recreational purposes. The larger waterways (Winooski River, Kingsbury Branch, and North Branch) are used by canoeists. With the exception of the Wrightsville Reservoir, a 90-acre impoundment of the North Branch, the vast majority of land along the waterways in East Montpelier (except that immediately bordering highways) is privately owned. Although access to these public resources is limited, the town's extensive trail system provides numerous encounters with streams and wetlands.

For recreational boating, much of the Winooski River found in East Montpelier is referred to as quick water and could be rated as Class 1. A one mile or so segment of the river below Winooski #8 dam (located along US 2) is rated as an “intense tight and rocky” Class 3 whitewater run. This Class 3 area is used regularly during a weekend in the spring for kayak competitions known as the Fiddlehead Race.

A **recreational boating access** to the Winooski River, maintained by the Vermont River Conservancy, is located near the mouth of the Kingsbury Branch. The site is owned by the town. A state **Fish & Wildlife boating access** to North Montpelier Pond is located on VT 14 in North Montpelier.

Wrightsville Beach, located in Middlesex on the northern shore of Wrightsville Reservoir, is a public swimming area open to and used by East Montpelier residents. A public boat launch area is located on the western shore.

There are no official swimming areas within East Montpelier, although swimming or “dipping” is believed to occur in many of the local waterways and in **Coburn Pond**, a 6-acre pond on land currently owned by the State of Vermont. The pond was intended by the Agency of Transportation as a wetlands mitigation site, but the old quarry pond was saved for public use through an Act 250 decision. The Friends of Coburn Pond and the Planning Commission participated in the hearing process and advocated for the pond’s protection.

Future Recreation Potential

- **Old LaPerle Farm Property:** This 46-acre property at the junction of US 2 and VT 14 is currently owned by the town. A committee is exploring development options. Some of the property is unsuited to development but may have recreation potential, including outdoor recreational use, community space and/or a playground.
- **Winooski River Walk:** Village residents have expressed interest in developing a river walk near the Emergency Services Facility. This site is currently privately owned.
- **East Montpelier Senior Center:** East Montpelier seniors now attend the Twin Valley, Montpelier, or Barre Senior Centers. There has been interest in locating a senior center within East Montpelier Village.

Goals and Actions

- **Goal 4.4:** Provide year-round programs of varied recreational activities to meet the interests and needs of residents of all ages and skills.
- ✓ **Action 4.4.1:** Create a plan for meeting the demand for recreational activities for all ages.

- 1 ➤ **Goal 4.5:** Protect recreational spaces and develop new recreational areas in various parts of
2 town.
- 3 ✓ **Action 4.5.1:** Maintain and improve existing recreational facilities near the Elementary
4 School.
- 5 ✓ **Action 4.5.2:** Develop a trail along the Winooski River in East Montpelier Village.
- 6 ✓ **Action 4.5.3:** Develop a plan for the Old LaPerle Farm property that includes
7 recreational uses.
- 8
- 9



Bouncy castle at Rally for the Village 2016 (Julie Potter)

D. TRAILS

History

Until the 1790s, trails and waterways were the only means of transportation in East Montpelier. It is only since the 1960s and 1970s that trails have been used increasingly for recreation.

As snowmobiling, walking, cross-country skiing and bicycling became more popular, the citizens of East Montpelier formed local trail user groups. Over time, these groups, with private, state and local funds, established a variety of temporary and permanently protected trails with interested landowners.

Current Status

East Montpelier is known today as a trail-friendly town, and is a statewide model for cooperation between the town, landowners, and user groups representing snowmobilers, skiers, walkers, bicyclists, and others. Many of these trails are permanently protected. In addition, there are countless miles of informal private and neighborhood trails and scenic country roads used for bicycling and walking.

This diversity of trail access continues, due to town financial support for trails and active trail groups that work well with landowners. Also essential are trail users who have an absolute respect for landowners' wishes and limits. Good trail design, clearly marked trails, and clarity of boundaries helps protect the privacy of landowners. Good communication among all groups is essential to this balance. As public use of trails grows, more accommodation for off road parking will need to be provided.

The East Montpelier trail user groups mentioned above include the following:

In 1994, the local trail user group incorporated as **East Montpelier Trails, Inc. (EMTI)**, a non-profit group is composed of local volunteers who represent a range of user groups and interests, including walking, snowmobiling, skiing, and biking. As of 2018, EMTI offers over 13 miles of various-use trails. EMTI has been instrumental in the development, protection, construction, and maintenance of the town trail system and it has nearly completed a large loop through town, connecting to Montpelier's North Branch Park on the east, as well as Union-32 High School and the proposed Cross Vermont Trail on the west. EMTI provides a forum for landowner questions and concerns and for trail users who want to help. The group holds bi-monthly meetings. Map 2 shows EMTI's trail network. The map, along with updates and contact information, is available at the East Montpelier Trails website: <http://emtrails.org/>.



(East Montpelier Trails, Inc.)

The **East Montpelier Gully Jumpers Snowmobile Club, Inc.** is a non-profit group established in 1972 to provide and maintain a network of approximately 36 miles of winter use trails. The Gully Jumpers are a chapter of the Vermont Association of Snow Travelers (VAST). Through cooperative work with landowners, a groomed network of winter-time use only trails exists around town and is enjoyed by all types of trail users, not just snowmobilers. Skiers, snowshoers, and winter hikers are welcome to join the club to help support the club's efforts. Information is available through the Gully Jumpers' website: <http://www.gullyjumpers.com/>

The **Town Forest Committee** manages a system of trails on the 96.4-acre Town Forest on Haggett Road. Trails were first cleared in 1989 with the help of volunteers. The primary entrance to the Town Forest is on Haggett Road, but it is also accessible via other town trails.

The **Cross Vermont Trail Association (CVTA)** is a non-profit organization working to create a multi-use, four-season path across the width of Vermont, from Burlington to Wells River. The Cross Vermont Trail passes through East Montpelier, partly as an on-road route for bicyclists but also a multi-use off-road trail along portions of the former Wells River-Montpelier Railroad bed. The CVTA will begin construction on a bridge for pedestrian and bike uses across the Winooski River in the spring of 2018. East Montpelier Trails connects to the CVTA trail via the Wheeler Road/Union-32 section. More information is available at <http://www.crossvermont.org/>.

Montpelier Area Mountain Biking Association (MAMBA) advocates for responsible trail use, performs trail building and maintenance, and secures additional riding areas. MAMBA has worked with Morse Farm to develop a mile-long beginner-level trail. MAMBA also collaborates with EMTI and CVTA.

Morse Farm Ski Touring Center is a private cross-country ski and snowshoe center located on County Road. Trails include 15 miles of groomed ski trails and 2.5 miles of back country snowshoe trails. Information is available at <http://skimorsefarm.com/>.

Goals and Actions

- **Goal 4.6:** Maintain a proactive and supportive relationship between the town, trail user groups, and landowners.
 - ✓ **Action 4.6.1:** Support efforts to locate off-road segments of the Cross Vermont Trail in East Montpelier.
- **Goal 4.7:** Maintain and expand the existing trail system to create connected loops and links to villages and population centers.
 - ✓ **Action 4.7.1:** Maintain existing trails and support completion of planned trail segments.
 - ✓ **Action 4.7.2:** Consider new trail links to connect villages and East Montpelier Elementary School with the trail system.
- **Goal 4.8:** Provide sufficient access and parking for trail resources in town.
 - ✓ **Action 4.8.1:** Provide sufficient safe parking off the traveled roadway and educate trail users on safe parking practices.

E. HISTORIC RESOURCES

History

A brief history of East Montpelier is discussed in Chapter 2, A Look at the Town.

Current Status

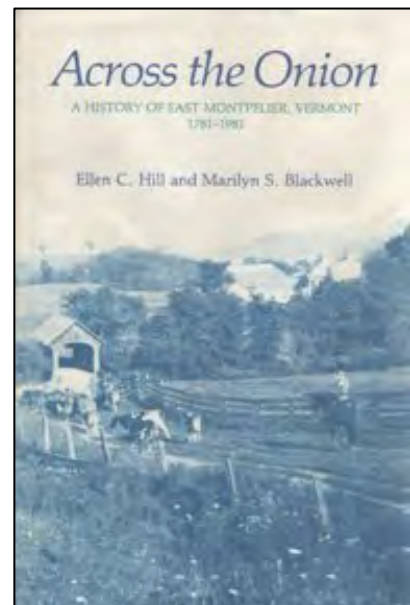
From the earliest Native Americans to present-day residents, the town's inhabitants have changed the natural landscape. The results have become the historic and archaeological resources that contribute to the character and quality of the landscape we experience today. The historic settlement patterns of East Montpelier are still legible and contribute to the character of the landscape. These patterns include a clear distinction between villages and the rural countryside, which is dominated by farm and forest land. Buildings tend to be located close to the road and often in a tight complex of house and outbuildings, each oriented perpendicularly to each other and to the road.

Villages, buildings, structures, cemeteries, and archaeological sites are important to understanding the town's history and prehistory. Maintaining the harmony of these features with their surrounding landscapes is critical to the integrity of historic resources. The town's historic sites have been preserved largely through individual efforts.

The East Montpelier Historical Society, a non-profit organization, is involved in raising awareness of the town's history. Activities include creating displays at the Town Offices, preserving historical records and artifacts, and holding regular meetings with presentations and discussions of town history. The Society meets monthly from February to November and shares its meetings with the Calais Historical Society.

Beginning in 1976, efforts have been made to identify and preserve historic resources. In that year, the East Montpelier Bicentennial Committee produced a map of the town's historic sites and *East Montpelier: A Bicentennial Souvenir Booklet* about historic homesteads. These helped raise awareness of the importance of historic buildings. Map 3 shows the town's historic sites.

A very complete history of the town, authored by Ellen C. Hill and Marilyn S. Blackwell, *Across the Onion: A History of East Montpelier, Vermont, 1781-1981*, was published in 1983 by the Historical Society, and includes information about the town's historic houses and barns. *Across the Onion* was reprinted in 2009 and the Society updated and reprinted in booklet form the information from the Bicentennial Committees map.



1 Historic Structures

2 As part of a statewide effort to inventory historic properties, the Vermont Division for Historic
 3 Preservation (VDHP) surveyed the town's historic buildings in 1978 and 1979. The VDHP
 4 documented approximately 110 structures and two historic villages in its Historic Sites and
 5 Structures Survey of East Montpelier. The East Montpelier Village and North Montpelier were
 6 identified as historic districts and Center Road was listed as a historic road. The structures listed
 7 in the survey are eligible for listing on the National Register of Historic Places. Historic
 8 structures and cemeteries are shown on the Historic Resources Map.



Coburn Bridge (National Register of Historic Places)

9 Several structures in East Montpelier have been
 10 listed on the National Register of Historic Places,
 11 the official list of the nation's cultural resources
 12 worthy of preservation. They include: the Old
 13 Meeting House, the Old Brick Church, the Parley
 14 Davis house in East Montpelier Center, and the
 15 Coburn covered bridge. Listing in the register
 16 provides some protection for important buildings
 17 and eligibility for certain grants and tax credits.

18 Identification of archaeological sites in East
 19 Montpelier has been informal and based largely on
 20 nineteenth-century histories and/or oral history
 21 rather than site investigation. The VDHP contains
 22 a file of eight sites that have been researched for
 23 probable prehistoric or historic remains.

24 Decay, neglect, and deferred maintenance pose a
 25 threat to the town's historic resources. Barns and
 26 outbuildings are particularly important to East

27 Montpelier's agricultural heritage and some are threatened due to their poor condition. The
 28 VDHP encourages towns to make a complete inventory of these structures. East Montpelier has
 29 not yet completed such a survey.

30 In 2011 the Planning Commission
 31 amended the zoning regulations to
 32 encourage the adaptive reuse of old
 33 barns. The new regulations expanded
 34 the types of permitted uses, including
 35 some commercial uses that are
 36 consistent with the residential and
 37 agricultural character of the associated
 38 district.

39 Since 2008, the historic center of East
 40 Montpelier Village has received status
 41 as a Designated Village Center by the
 42 Vermont Downtown Board. This
 43 designation makes historic properties



Ormsby Barn (Jean Vissering)

1 within the Village Center eligible for a number of tax credits for substantial rehabilitation (10%),
2 façade improvements (25%), and code improvements (50%).

3 There have been some town-sponsored efforts to encourage preservation of historic resources.
4 The Four Corners Schoolhouse Association, founded in 1989, has succeeded in keeping the Four
5 Corners Schoolhouse as a community property and maintains the building as the last publicly
6 accessible one-room schoolhouse in East Montpelier. After the Elementary School opened in
7 1966, the town took over the two-room schoolhouse in East Montpelier Village for the Town
8 Office. Several other old schoolhouses have become private residences.

9 The Town Clerk is responsible for the preservation and restoration of town records. Since 2000
10 the town has appropriated funds annually for restoration expense. Town residents can research
11 their historic properties through land records and the VDHP Survey of Historic Sites and
12 Structures, a copy of which is located at the Town Clerk's office. The inventory can also be
13 accessed at the VDHP office in Montpelier. Most of the historical ephemera owned by the
14 Historical Society are kept in the Town Office vault, but some are kept at the homes of members
15 of the East Montpelier Historical Society due to lack of suitable storage space at the Town Office
16 building.

17 Cemeteries

18 The town's cemeteries provide an important link to the past and a record of its earliest settlers.
19 In 1974, Ellen C. Hill and Bob and Lois Webster published *Cemeteries of East Montpelier,*
20 *1794–1973* (revised in 1994), which helped identify neglected family cemeteries. The Cemetery
21 Commission, in conjunction with East Montpelier Historical Society, produced an edition of this
22 booklet with information on the ancient cemeteries and burial grounds and will produce another
23 for the cemeteries that are still active. The Historical Society produced a video photographed
24 and narrated by Elliott Morse entitled *A Photo Trip through the Cemeteries of East Montpelier*
25 *and Calais*. This is available from the Society.

26 The first public cemetery deeded to the town in 1794, the Center Burial Ground, was later
27 abandoned. Its tombstones were used to build the surrounding stonewall and then to repair a
28 nearby culvert after the 1927 flood. After a descendant recovered Barnabas Doty's stone and
29 returned it to the cemetery in 1978, it was reopened as the Doty Cemetery.

30 Public cemeteries include the Doty, Center,
31 Cate, Clark, Wheeler, East Village, and
32 Cutler cemeteries. Historic private family
33 burial grounds include the Tinkham,
34 Quaker, Peck, Gray, Gould, Bennett, Dillon,
35 Willard, and White. Numerous East
36 Montpelier residents were buried in the
37 Plainmont Cemetery on US 2 in East
38 Montpelier. Owned by the Town of
39 Plainfield, the cemetery's lot deeds are
40 recorded at the East Montpelier Town
41 Clerk's Office.



East Village Cemetery (Julie Potter)

Other residents, mostly from the North Montpelier Village area, are buried in the Poplar Hill Cemetery. This is located just north of that village in the Town of Calais. It is a private burial ground operated by an independent commission. Most burial records for the Poplar Hill Cemetery are recorded at the Calais Town Clerk's Office.

The East Montpelier Cemetery Commission is responsible for general maintenance, fencing, and repair of stones. Funded through an annual town appropriation and the interest from a Perpetual Care Fund, the commission's work ensures preservation of these important historic resources. The commission assumes responsibility for maintenance of the private burial grounds as well. Signs have been placed at all cemeteries and most have been cleared of brush and fenced. Casket and cremation burial space is still available at the Cutler and Doty cemeteries. The Cate and East Village cemeteries have space only for cremation remains.

Goals and Actions

➤ **Goal 4.9:** Preserve the town's historic structures and cemeteries for future generations to enjoy.

✓ **Action 4.9.1:** Ensure *Land Use and Development Regulations* and other actions by the town protect historic structures and settlement patterns.

✓ **Action 4.9.2:** Consider conducting an inventory of historic barns, outbuildings and other agricultural structures in East Montpelier.

✓ **Action 4.9.3:** Assist property owners who wish to apply for listing on the national or state Register of Historic Places.

✓ **Action 4.9.4:** Encourage property owners within the designated Village Center to take advantage of available tax credits for improvements to historic buildings.

✓ **Action 4.9.5:** Continue to maintain all public cemeteries, along with reasonable maintenance of old family burial grounds.

➤ **Goal 4.10:** Maintain the town's historic landscape patterns to serve as a model for future development.

This goal cuts across other areas. See action for Land Use (10.1.4).

➤ **Goal 4.11:** Enable residents of all ages to learn about and appreciate the town's history.

✓ **Action 4.11.1:** Provide programs and information about the town's history and historic resources to a range of audiences, including youth and adults.

➤ **Goal 4.12:** Preserve historical documents and artifacts.

✓ **Action 4.12.1:** Provide appropriate storage space for the preservation of town records and historical collections.

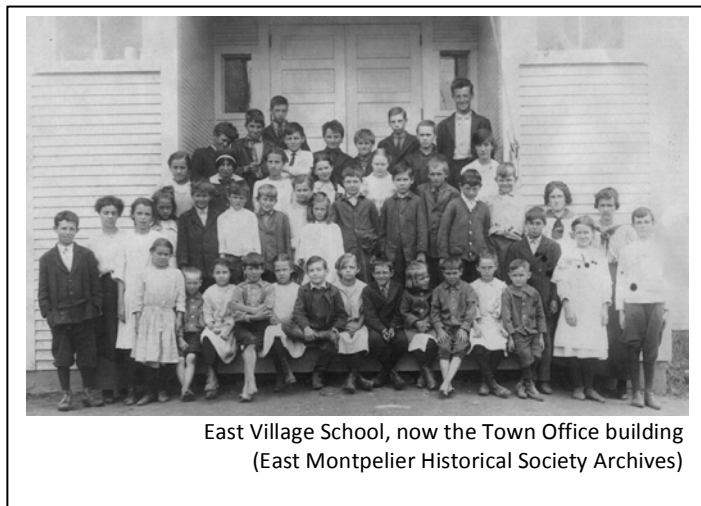
Chapter 5

PUBLIC SERVICES

A. EDUCATION

History

The first Vermont school law in 1782 established a district school framework. The law allowed towns the flexibility to set districts. School district boundaries were based on the distribution of persons in the town. Schools typically had one or two schoolrooms with mixed grade levels. Public funds raised by the town were divided among the districts in proportion to the number of students. Each district was an autonomous unit with the power to raise additional funds needed to operate the school. Transportation was the responsibility of the family.



District schools in town included:

District	School Name	Current Status
District No. 2	Cutler School Originally called Wheeler School	Building is now a residence
District No. 3	East Hill School	No building remains at this site.
District No. 4	North Montpelier School	Building is now a residence.
District No. 5	Four Corners School Originally called Templeton School	Building is now a community building.
District No. 6	Center School	Building is now a residence
District No. 8	Horn of the Moon School.	Building is now a residence
District No. 9	East Village School	Building is now the Town Office
District No. 10	Peck School	Building is now a residence.
District No. 11	Morse School	Building is now a residence.
District No. 12	Cummings School	No building remains at this site.

The East Montpelier Elementary School (EMES) opened its doors in 1966 and housed grades one through eight. Kindergarten students left the Morse School on County Road and joined EMES in 1981 when the district renovated and expanded the building. The renovation included additional classrooms, a new roof and a woodchip heating system. The pre-kindergarten program moved into the building in 2006 after formerly residing in the Four Corners Schoolhouse.

In November 2012, the voters of East Montpelier supported a 20-year bond for an \$8.1 million renovation at EMES to begin in the spring of 2013. The new building opened in 2014.

High school students were tuitioned to other school districts until the present Washington Central Supervisory Union (WCSU) was formed. At that time, WCSU included the towns of East Montpelier, Calais, Middlesex, Worcester and Montpelier. Montpelier later withdrew from the Supervisory Union and Berlin joined, forming the Union High School District No. 32. Union 32 School (U-32) opened in 1971 for students in grades 7 through 12 from the five-member towns.

In 1998, voters approved a \$12.1 million bond to renovate and expand the U-32 facility. The renovations addressed deferred maintenance, safety and air quality issues, and created a designated middle school space. In 2000, voters approved an additional spending authority of state aid for \$2.9 million for a new academic wing and gymnasium, which were completed in 2002.

Current Status

The locations of East Montpelier Elementary School and U-32 Middle/High School are shown on Map 1.

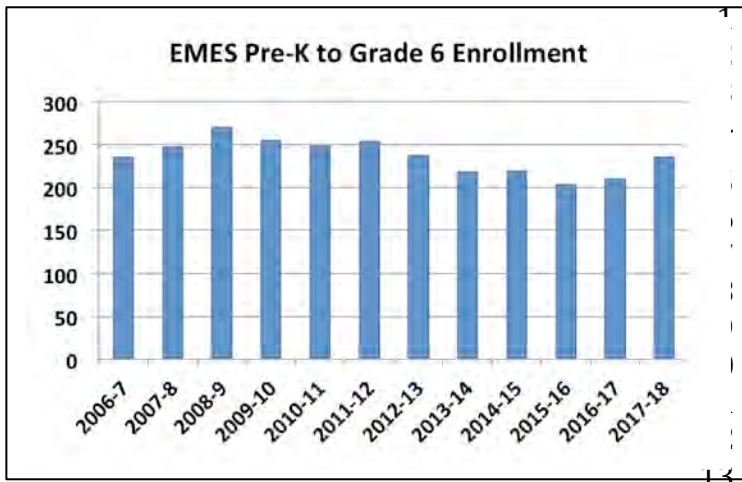
Approximately 75% of property taxes raised in East Montpelier support school operations. In FY 2018, total education spending approximated \$7.3 million, essential split equally between East Montpelier Elementary School and U-32 Middle/High School. Of this \$7.3 million, the town paid \$4.4 million from tax revenues, with the remaining \$2.9 million coming from the state.

East Montpelier Elementary School (EMES)

Education has always been a high priority and valued to East Montpelier residents. The elementary school is the focal point of the community. It is not only where our children learn; it is also used for many parental, community and recreation activities and events.

EMES enrollment during the 2017-2018 year was 235 students in grades pre-kindergarten through six. The enrollment over the previous year reflects an increase in the size of the kindergarten class.





Generally, There are 2 classes per grade-level, although this remains flexible and adjustments are made as grade populations change.

In addition to the classroom academic curriculum, EMES offers Physical Education, Music, Art, Library/Media and Guidance. All EMES students receive high quality instruction based on the WCSU Learning Progressions and Common Core State Standards (Tier 1). In addition, EMES provides Tier 2 intervention in academics and

behavior as needed to improve specific skills for those students who fall behind, yet do not qualify for more individualized instruction. EMES uses school-wide positive behavioral intervention strategies for creating a positive school environment. These include lessons on expected behaviors, bullying and mindfulness.

Trails, the playground, gardens and ballfields near the school are used for outdoor activities. EMES partners with North Branch Nature Center to provide the ECHO program for students in grades 4-6. Teachers in the younger grades are trained to develop their own nature-based curricula.

EMES offers its facilities to support the entire community. EMES hosts many activities, some attended by the larger community, including "I love East Montpelier Day." The annual Town Meeting is held at the school, as well as a Green-Up Day luncheon. Adults as well as children use the indoor basketball court for games. The Community Connections Preschool is a licensed daycare located at EMES, operating from 8:00-4:30. They also run a summer food program providing free meals for children in the Montpelier area; meals are cooked at the EMES kitchen.

The school publishes a weekly newsletter that contains school and community news, updates, educational information and celebrations. Schools within the WCSU also publish articles in the Bus Stop Conversations. Front Porch Forum is another venue for disseminating school news.

The five-member East Montpelier School District Board of Directors governs the school and is elected by Australian ballot. School budgets are discussed at the annual Town Meeting in March, but voted on by Australian ballot. Administrative supervision is provided by WCSU Central Services, whose structure is comprised of the superintendent, curriculum, instruction and assessment, student services, early education, human resources, technology services, business/finance management and administrative assistant support staff.

EMES has a Capital Improvement Plan. Following the completion of major school renovations, the roof was replaced in 2015. No further capital expenditures are planned for the next 5-8 years.

U-32 Middle/High School

U-32 Middle/High School is a grades 7-12 facility located in East Montpelier. The current student population is 766, including 191 students from East Montpelier. The centerpiece of the school is the atrium, with student support services surrounding it. The school has state of the art technology systems, parking facilities, athletic fields, a lighted game field for football, soccer, lacrosse, track, field hockey, and tennis courts. The building is heated by a wood chip fired system.



The school features a unique teacher advisor (TA) system in which each staff member acts as an advocate for approximately 15 students, and students address faculty members by their first names. Other strengths include: outstanding theater and fine arts programs, incorporation of sports and drama as co-curricular learning experiences, a strong elective course system, a standards-based experiential program for independent study, and the incorporation of multiple pathways. Advanced Placement (AP) courses have been added to the curriculum.

In addition to courses offered at the U-32 building, students are eligible to attend the vocational/technical programs at the Barre Technical Center. There are a variety of educational pathways, including Branching Out, the Alternative Path to a Diploma, The Pilot, and Community Based Learning, that afford opportunities to students who work better in non-classroom-based learning experiences.

The school community is dedicated to excellence in teaching and learning, celebrates the value of all members, and strives to meet the emotional, intellectual, ethical, cultural, and physical needs of all its members. Through a strategic planning process, the community has established a central goal of creating a learning community that promotes commitment to personal best.

U-32 is governed by a seven-member board, comprised of representatives from the five member towns. The number of representatives from each town is based on a ration of each town's population. Currently, East Montpelier has two representatives on the U-32 board. U-32 school board representatives are elected by Australian ballot.

The opportunity to hear the report of the U-32 Board of Directors occurs at a district meeting usually held just before Town Meeting Day. The U-32 budget is voted by Australian ballot at the March Town Meeting held by each of the five sending towns. Administrative supervision is provided to U-32 through the WCSU.

1 **Implications of Act 46**

2 Act 46 is a state law, passed in 2015, intended to promote school district consolidation. The
3 stated intent of the law is to provide a quality education with a variety of educational
4 opportunities to all Vermont students, maximizes operational efficiencies and the ability to share
5 resources. The law provides incentives, in the form of property tax breaks, for voluntary
6 mergers. If school districts do not propose a consolidation plan or alternative acceptable to the
7 state Board of Education by the end of 2017, the secretary of education will develop a plan to
8 transition the districts to a “sustainable governance structure.” School districts that choose to do
9 nothing by July 2019 will have to do what the state tells them to do.

10 Act 46 has proven to be challenging and controversial for many school districts. The districts in
11 the Washington Central Supervisory Union have been unable to come up with a consolidation
12 structure that all five municipal school districts can agree with. For now, it remains to be seen
13 how Act 46 will play out for East Montpelier Elementary School and Washington Central
14 Supervisory Union.

15 **Private Schools**

16 Orchard Valley Waldorf School is a non-sectarian, independent school founded in 2004.
17 Orchard Valley Waldorf School serves children from infancy to grade 8, with summer and
18 aftercare programs available. The school has more than 150 students enrolled. Orchard Valley
19 Waldorf School’s main campus, known as “Grace Farm,” is located on VT 14N.

20 **Adult Education**

21 A variety of programs are available near East Montpelier to enable adult learners to further their
22 education or to merely expand their horizons.

- 23 • **Central Vermont Adult Basic Education (CVABE)** provides adult education and
24 literacy services in Barre and Montpelier. CVABE offers free tutoring and classes to
25 adults and teens age 16 and older. Services range from instruction in basic math, reading
26 and writing to high school completion, college and work readiness, to learning the
27 English language.
- 28 • **Barre Technical Career Center** offers some adult continuing education programs,
29 including Licensed Nursing Assistant.
- 30 • **Community College of Vermont** has a center in Montpelier. Courses are offered for
31 fall, spring and summer semesters in the morning, afternoon, evening and weekends. In
32 addition to academic subjects, CCV also offers workforce development programs,
33 including computer technology training and certificates for product technicians, public
34 bookkeeping, and career readiness.
- 35 • **Osher Lifelong Learning Institute (OLLI)** offers courses and events for adult learners.
36 OLLI offers classes and lectures on a range of topics at the University of Vermont in
37 Burlington. OLLI also offers lectures at locations throughout the state. Locally, OLLI
38 lectures are held in Montpelier and Barre.

Goddard College and Vermont College of Fine Arts are located in adjacent towns. Several other colleges and universities are located within an hour's drive of East Montpelier. Additionally, online programs greatly expand the educational opportunities available to East Montpelier residents.

Goals and Actions

- **Goal 5.1:** Provide for supportive and stimulating schools that promote learning.
 - ✓ **Action 5.1.1:** Motivate each student to enjoy learning and experience academic and social success, while instilling respect for the rights of others.
 - ✓ **Action 5.1.3:** Plan for facility maintenance and future improvements through the school district's capital budgeting process.
- **Goal 5.2:** Encourage community participation in the schools.
 - ✓ **Action 5.2.1:** Promote the use of school facilities for adult education and community use.



School bus on Haggett Road (Gary Ann Lewis)

B. SOCIAL SERVICES

History

In the town's earliest days, people helped each other as the need arose — attending the sickbed, birthing babies, and caring for the elderly and the indigent. Towns assumed a role in social services to the indigent through the office of Overseer of the Poor. That person's job was to keep track of needy residents and to furnish them support from town funds allotted for that purpose. Sometimes residents were required to work for the town in exchange for the assistance. In 1880, care for the poor represented almost half of the town's \$2,500 total budget.

After passage of the Social Security Act of 1935, both federal and state governments gradually assumed more responsibility for those in need.

In 1967, state and federal governments assumed full responsibility for welfare services. Thus, the administrative and decision-making functions were moved from the local scene. In addition, during the past two decades a number of private nonprofit organizations, most located outside of East Montpelier, have been formed to provide assistance in specific areas.

Current Status

East Montpelier is still a small town and the willingness of neighbors to help other neighbors directly is a critical part of the social service network. Some neighborhoods have formed groups who work together to provide assistance to other neighbors who may be elderly or have special needs. Services can be more quickly targeted where they are needed if supported by the community's natural helping networks. Front Porch Forum, an on-line way to connect East Montpelier residents, can also be used to communicate service needs.

Various federal, state, and private social services are available for residents, including fuel assistance, medical and dental care, mental health services, local transportation, legal services and safe homes for victims of abuse. Services may provide long-term continuing assistance or one-time short-term help. They may be no cost or low-cost to the recipient.

While the services are available to residents of East Montpelier, they are often administered through offices located in the regional centers of Barre and Montpelier. East Montpelier directly helps fund certain of these services each year through appropriations evaluated by the Funding Request Study Committee and voted at Town Meeting as recorded in the annual Town Report. Residents who find themselves in need of assistance can be helped to connect with appropriate service agencies by contacting the East Montpelier Town Service Officer.

Houses of Worship

The town's three churches, **Old Meeting House Church**, **Old Brick Church**, and **Crossroads Christian Church**, serve important functions to meet social service needs. The churches assist in the operation of food-shelf programs that collect, store, and distribute food to those who are in need. The churches also coordinate efforts between social service agencies and town residents to meet special needs of their members. The churches noted above are referenced on Map 1.



Old Meeting House Church (Thomas Schmidt)

Food Assistance

The **Montpelier Food Pantry**, the **Food Shelf at the Old Brick Church** and the **Onion River Food Shelf** are all available to East Montpelier residents in need of food assistance.

Senior Services

The **Twin Valley Senior Center** is located in East Montpelier and provides a range of services for seniors including classes, meals, transportation, and health related services. East Montpelier seniors are also able to participate at the **Montpelier Senior Activity Center**, which offers a large number of classes and various services.

Child Care

East Montpelier recognizes the need for safe and affordable quality child-care services. The town has a number of Registered Home Care Providers and Licensed Providers, including East Montpelier Elementary Preschool, Community Connections at East Montpelier, and Community Connections Preschool Aftercare at East Montpelier Elementary. Home-based providers with six or fewer children require no permitting from the town. If the state requires a local permit, such approvals are readily obtained from the Zoning Administrator. Residents can also access child care services from providers in other nearby towns. The Family Center of Washington County offers a number of services including financial assistance.

There are a number of programs available to families with young children including Reach-UP, Head Start, and Essential Early Ed (EEE). These programs help with financial assistance, day care and parenting classes.

More information regarding the availability of various social services can be obtained from the Town Clerk, the Town Service Officer, or from the East Montpelier Elementary School.

Goals and Actions

- **Goal 5.3:** Support services and facilities to address the needs for seniors and families with young children.
 - ✓ **Action 5.3.1:** Support the location of a senior center in East Montpelier Village.
This goal cuts across other areas. See actions for Housing (8.1.1, 8.1.2, 8.1.3).
- **Goal 5.4:** Promote formal and informal social support services.
 - ✓ **Action 5.4.1:** Post current information about existing social services.
 - ✓ **Action 5.4.2:** Maintain a list of contacts to neighborhood groups.



C. EMERGENCY SERVICES

Police Protection

Police protection is provided primarily by the Vermont State Police. A Town Constable provides additional services for non-violent situations.

The Vermont State Police (VSP) routinely responds to break-ins, domestic disturbances, motor vehicle accidents, and other 911 calls as needed. Additionally, the town contracts extra coverage (40 hours per month) that is primarily used to address traffic violations on roadways within town. VSP tend to patrol parts of town based on the concerns and requests made by residents to the Selectboard.

The town has an elected constable that does not enforce traffic laws or engage in law enforcement duties other than animal-related responses. The constable also assists VSP when requested during non-violent emergencies.

VT State Police Crime and Police Service Report for East Montpelier					
	2012	2013	2014	2015	2016
Violent Crime					
Murder/Manslaughter	0	0	0	0	0
Sexual Assault	1	1	0	0	2
Robbery	0	1	0	0	0
Assault (aggravated/simple)	9	5	6	4	5
Property Crime					
Burglary	12	18	6	9	14
Larceny/theft	22	20	15	11	25
Motor Vehicle Theft	0	0	1	0	1
Other Property Crime	16	18	9	11	12
Other					
Illegal Drug Incident	10	8	4	6	2
Disorderly Conduct/Other	37	26	19	22	19
Traffic Incidents					
Fatal Crash	0	0	1	1	1
Accident Investigation (DMV)	46	29	21	18	21
Motor Vehicle Related Incident	49	20	47	71	52
DUI Incident	7	6	8	9	7
Miscellaneous					
Runaway Juvenile	2	0	0	1	0
Death Investigation	1	4	2	0	0
Misc. Service Call	257	257	402	443	333
TOTAL LAW INCIDENTS	469	413	541	606	494
Source: Town Reports					

Fire and Ambulance Services

Since 1964 the East Montpelier Volunteer Fire Department Inc. (EMFD), a private nonprofit corporation, has provided fire and first response to the towns of East Montpelier and Calais. Ambulance service was added in 2010. EMFD relies on volunteers, but also has several part-time employees staffing the ambulance service. Due to the large coverage area and its rural nature, EMFD operates out of two stations that are strategically located in close proximity to major roadways (County Road and US 2 and VT 14). EMFD participates in the Capital Fire Mutual Aid System with other fire departments in the region.

In March 2009, the citizens of East Montpelier and Calais voted to build a new Emergency Services Facility (ESF) and pay for it with a \$2.1 million bond. East Montpelier's two-thirds share is \$1.4 million, payable in annual installments, with the final payment due on December 1, 2030. The new building is owned by East Montpelier, with Calais holding a one-third financial interest. The ESF is leased at no charge by East Montpelier to EMFD, although the town retains nominal control of the designated public area for emergency use and community meetings.



Emergency Services Facility (Julie Pott)

EMFD moved into the new state-of-the-art facility located in the village at 54 Village Acres (off US 2). EMFD's location is shown on Map 1. This 8,000 square foot building incorporates four apparatus bays, operations room, lockers, kitchen, offices, and community room. The station on Templeton Road continues to be utilized by the fire department and

emergency response and is an important part of the efficient, effective delivery of emergency services in both towns.

The new Emergency Services Facility provides a state-of-the-art Emergency Operation Center (EOC) for East Montpelier, Calais, and surrounding communities during major emergencies. It includes eight different work spaces that offer phone, internet and radio communications, and a community room designed to offer space for up to 40 local, state, and federal officials to coordinate and deliver emergency or disaster services. The building is fully sprinklered and has full emergency generation. The EOC has been put into operation on two occasions (the most recent during Tropical Storm Irene in August 2011) and is proving to be an invaluable resource. EMFD participates in developing the Hazard Mitigation Plan for the town. East Montpelier Elementary School and Barre Auditorium serve as emergency shelters.

With the completion of the new building, EMFD proposed and successfully expanded its services to include a full-fledged Advanced Life Support (ALS) ambulance service. The goal was to improve response times, reduce transport times, and to recover the revenues generated by such a service so they could be re-invested into our communities. In 2013, EMFD and the Towns of East Montpelier and Calais entered into a long-term agreement, subject to annual review, for the provision of fire, ambulance, and emergency services. The towns, through general fund appropriations, provide the lion's share of EMFD's annual operating budget. EMFD also provides ambulance service by contract to the Town of Plainfield, which bolsters the ability of EMFD to maintain professional staffing for the service. This supports our ongoing desire to partner with our neighboring communities to improve services and share resources when possible.

The ambulance service provides a revenue stream that is directed into a small contingency reserve fund to help EMFD through operating budget shortfalls, and, more importantly, into EMFD's capital reserve fund. This fund will help pay for future equipment purchases such as trucks, fire and emergency services (EMS) equipment, and maintenance of the ESF building. By the end of 2017, over \$400,000 had been collected by the fund, allowing the purchase of a tanker truck, a rescue/pumper vehicle, and two ambulances at no direct cost to taxpayers. Ambulance service revenues annually add \$70,000 or more to the reserve fund.

EAST MONTEPELIER FIRE DEPT. CALL STATISTICS					
	East Montpelier	Calais	Plainfield	Mutual Aid	Totals
Ambulance Calls*					
2014	174	69	82	32	357
2015	152	57	79	26	314
2016	229	84	78	58	719
Fire Calls					
2014	33	17	1	15	66
2015	36	17	4	9	66
2016	42	26	5	8	81
Car Accidents					
2014	26	5	2	2	35
2015	23	8	1	3	35
2016	34	17	3	3	57
Burn Permits					
2014	106				106
2015	115				115
2016	114				114
Total Calls					
2014	339	91	85	49	564
2015	326	82	84	38	530
2016	419	127	86	69	701
*Ambulance Calls include Transport/No Transport/Fire Assists					
Source: Town Reports					

The accompanying table shows the purpose and origin of fire and ambulance emergency calls, and burn permits issued, since 2014. The number of total calls each year is highly variable, but trending higher. The majority of total calls arise from within East Montpelier, with the percentage hovering just over 50% (factoring out burn permits).

Staffing

To ensure acceptable ambulance service coverage, EMFD has transitioned from an all-volunteer department to a combination of volunteers and paid staff. EMFD is currently staffed as outlined below, but continues to rely

heavily on volunteers. Nationally, services such as EMFD are weakest during daytime hours when volunteer staff are most likely to be working, an issue for EMFD as well. EMFD collects data on an on-going basis to assure resources are deployed in such a manner that paid staff supplement the volunteer staff. By doing this, both the level of services needed and the cost of the services will be sustainable.

EMFD is staffed 8 a.m. to 12 a.m. with at least one paid staff member, augmented by volunteers as necessary to handle calls. Other responders are paid a small shift stipend to cover on-site or on-call night hours and may also receive a per call payment. The paid staff consists of many EMFD members, as well as trained providers from other services. The paid staff has assigned duties that include administrative, truck/equipment checks, cleaning, etc. Having the paid staff has helped improve the state of readiness and overall delivery of services.

1 Equipment

2 EMFD's Capital Plan through 2027 calls for the
3 replacement of a pumper/tanker in 2022 and an
4 ambulance in 2024. EMFD attempts to purchase all
5 future equipment through the self-funded EMFD capital
6 reserve fund, however additional public funds may be
7 required to replace existing aging equipment.

East Montpelier Fire Department Major Equipment

2 Class "A" pumper/tankers
1 tanker
1 rescue/pumper
2 advanced life support ambulances
1 utility truck

8 Water Supplies for Fire Fighting

9 Currently the town has dry hydrants located at these locations: Packard Drive, Vincent Flats
10 Road, Center Road, Templeton Road, Horn of the Moon Road, Sparrow Farm Road, Factory
11 Street, Northwood Drive, East Hill Road, and Clark Road. These dry hydrants were largely
12 constructed through grants initiated by EMFD.

13 EMFD has also discussed additional water supply opportunities such as coordinating with the
14 Agency of Transportation to provide a dry hydrant as part of the planned US 2/VT 14 bridge
15 construction project. Existing hydrants in East Montpelier Village cannot be used due to
16 inadequate capacity in the Crystal Springs Water System. Improving this system is a goal of the
17 East Montpelier Village Master Plan.

18 Emergency Response and Disaster Planning

19 East Montpelier has adopted the National Incident Management System, which is the recognized
20 standard for managing emergencies and disasters. Key emergency personnel have received the
21 appropriate level of Incident Command System training, as required under the National Incident
22 Management System.

23 East Montpelier has prepared a Local Emergency Operations Plan (LEOP), which is updated
24 annually. Having and following the LEOP greatly increases the town's ability to effectively
25 manage and respond to a major emergency or disaster. The LEOP identifies key emergency
26 contacts, including the town's emergency management co-coordinators, as well as the State
27 Emergency Operations Center, HAZMAT Hotline, and emergency shelter contacts. The plan
28 inventories high-risk populations and emergency contacts, high hazard and vulnerable sites, and
29 entities able to provide services or equipment in an emergency.

30 The LEOP provides a procedure for handling an emergency, coordinating with other emergency
31 services, documenting damage from a disaster, and reviewing the effectiveness of the plan after
32 an emergency or disaster.

33 Goals and Actions

34 ➤ **Goal 5.5:** Maintain adequate fire and emergency response capabilities.

35 ✓ **Action 5.5.1:** Work with EMFD to assure reliable and cost-effective delivery of fire and
36 EMS services.

- 1 ✓ **Action 5.5.2:** Expand water supplies for firefighting, especially in East Montpelier
2 Village.
- 3 ➤ **Goal 5.6:** Maintain an effective Local Emergency Operations Plan.
- 4 ✓ **Action 5.6.1:** Ensure that the Local Emergency Operations Plan and other emergency
5 planning documents remain current.
- 6 ✓ **Action 5.6.2:** Ensure that key emergency officials receive appropriate emergency and
7 incident command training.
- 8 ➤ **Goal 5.7:** Promote emergency awareness and fire prevention.
- 9 ✓ **Action 5.7.1:** Promote and provide fire prevention information and education throughout
10 the community.

D. HAZARD MITIGATION & FLOOD RESILIENCE

Vermont's landscape and four seasons help create the distinct sense of place that is so beloved by residents and visitors. Yet the same landscape and seasonal weather can also give rise to dangerous storms, flooding, and damage to critical infrastructure. East Montpelier is not immune to these hazards, but we can take steps as individuals and a community to reduce their impacts. Hazard mitigation planning is the process that analyzes a community's risk from natural hazards, coordinates available resources, and implements actions to reduce risk. Effective hazard mitigation planning can reduce or eliminate the long-term risk to people and property from natural and human-caused hazards and their impacts.

History

Like much of Vermont, East Montpelier's villages developed along waterways. The early mill industries in North Montpelier and East Montpelier Village relied on waterpower to run their machinery. Roadways connecting settlements frequently followed the rivers.

The Great Flood of 1927 washed out innumerable culverts, bridges and roads in the town. Low-lying farmland was inundated. Barns flooded and livestock drowned. Homes and businesses suffered extensive damage. The Little Woolen Mill in North Montpelier became an island partly submerged in water when the pond behind the dam overflowed.

In 2011, residents were again reminded of how rivers and streams can become destructive. Heavy spring rains in May caused flooding and associated landslides that resulted in extensive damage to the town's roads. Landslide damage near the East Montpelier Village bridge damaged the Crystal Springs water line, shutting down water service to the east side of the village for two days. In August, Tropical Storm Irene deposited 4-5" of rain in East Montpelier. Flooding and erosion was widespread. Coburn Road experienced 8 feet of flooding, while the US 2 area near Towne Hill Road experienced 5 feet of flooding. In addition, Irene left portions of the town without power for three days.



US 2 in East Montpelier, 2011 (Toby Talbot)

Winter poses its own hazards. Snow and ice from winter storms can down power lines as well as making travel treacherous. The Valentine's Day blizzard in 2007 deposited 30" of snow. Power was out for extended days and two privately-owned barns collapsed from the heavy snow loads. US 2 was closed for about half of the day.

1 Current Status

2 Map 4 shows the town's waterways and flood hazard areas. FEMA updated its flood hazard
3 mapping of Washington County as part of its Map Modernization Program. These Digital Flood
4 Insurance Rate Maps (DFIRMs) became effective in September 2011.

5 The DFIRMs identify areas within the 100-year and 500-year floodplains. 100-year and 500-
6 year floodplains are commonly used terms to delineate areas that could be inundated by waters at
7 least 1 foot deep once every 100 years or once every 500 years. **Inundation flooding** is where



Inundation of US 2 in East Montpelier, 2011 (J. Larkin)

8 water rises into low-lying land
along the river. Note that many
areas are inundated more
frequently than once in 100 years
or by water less than one foot in
depth.

Based on the DFIRMs, 5.6% of
the land in East Montpelier is
found within the 100-year
floodplain (approximately 1,145
acres). About one-fifth of the
properties in town are totally or
partially located within the 100-
year floodplain (involves 33
structures). There are 11
additional structures in East

24 Montpelier within the 500-year floodplain.

25 East Montpelier has participated in the National Flood Insurance Program (NFIP) and regulated
26 development in the special flood hazard area since 1974. The NFIP is the only source of flood
27 insurance for properties in the 100-year floodplain. The town has updated its *Land Use and*
28 *Development Regulations* to adopt the new DFIRMs and meet the requirements for NFIP.
29 Limiting development in the 100-year floodplain reduces costly flood losses and increases public
30 safety.

31 While participation in the NFIP is one
32 important approach to flood hazard
33 mitigation, DFIRM maps are
34 based *only* on inundation hazards, and
35 fail to address fluvial erosion hazards,
36 the cause of most flood damage in
37 Vermont.

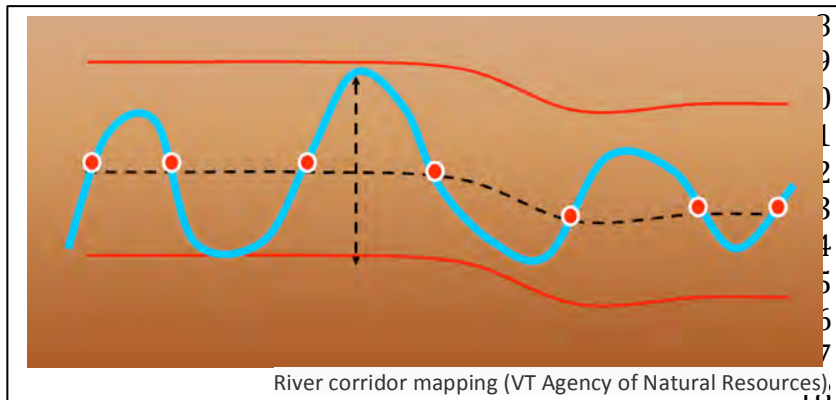
38 **Fluvial erosion** occurs when moving
39 water wears away the river channel
40 bed and banks, taking with it whatever
41 is in its path. Most flood losses in
42 Vermont are caused by fluvial erosion.



Fluvial erosion damage in Central Vermont, 2011
(Mansfield Heli-flight)

Rivers are dynamic systems that move within a corridor over time. While rivers naturally erode slowly, many of the human-caused alterations of our waterways during the past 150-200 years have contributed to Vermont's erosion hazard problem. Development that obstructs natural erosion at one location can significantly increase erosion downstream.

The **river corridor** maps produced by the Vermont Agency of Natural Resources (ANR) define boundaries to the area the river needs to maintain a stable stream channel. The river corridor area boundaries also attempt to capture the lands most vulnerable to erosion hazards.



River corridor mapping has been completed for East Montpelier. In East Montpelier, the river corridor maps include the Winooski River and Kingsbury Branch, and portions of Long Meadow Brook, Mallory Brook, Sodom Pond Brook and Muddy Brook.

In 2015, the town updated its *Land Use and Development Regulations* to adopt the river corridor map in the flood hazard regulations and incorporate new development requirements for properties in the river corridor. For streams not mapped by ANR, the regulations apply to the area within 50 feet from the stream bank. Limiting encroachment into the river corridor will prevent development that would increase overall erosion hazards and hinder a river's natural tendency to adjust toward a more stable condition. 8% of the town's parcels and 30 structures are in the river corridor, including 15 parcels and 14 structures not in the 100-year floodplain.

Maps of the floodplain and river corridor flood hazard areas can be viewed at the Town Office.

Hazard Mitigation Planning

Hazard mitigation is any sustained action that reduces or eliminates long-term risk to people and property. Hazard mitigation strategies and measures:

- Alter the hazard by eliminating or reducing the frequency of occurrence;
- Avert the hazard by redirecting the impact by means of a structure or land treatment;
- Adapt to the hazard by modifying structures or standards: or
- Avoid the hazard by preventing or limiting development.

In March 2012, East Montpelier completed a Hazard Mitigation Plan, which was approved by the Federal Emergency Management Agency (FEMA) in 2013. The Hazard Mitigation Plan identifies the worst threats facing the town, their likelihood of occurring, and the community's vulnerability to the event. The following table summarizes the plan's natural hazard evaluation.

1

Natural Hazards Identification and Analysis for East Montpelier			
Hazard Type	Probability ¹	Community Vulnerability ²	Worst Threat ³
Dam Failure	Medium	No	X
Drought	Medium	Yes	
Earthquake	Low	No	
Flood/Flash Flood/Fluvial Erosion	Low	Yes	X
High Wind	High	No	
Hurricane/Severe Storm	Medium	Yes	X
Landslide	Medium	No	
Structure Fire	Medium	No	
Tornado	Low	No	
Water Supply Contamination	Low	No	
Winter Storm/Ice Storm/Extreme Cold with Power Failure	High	Yes	X

¹ **Probability:** *High:* Near 100% probability in the next year. *Medium:* 10% to 100% probability in the next year, or at least once in the next 10 years. *Low:* 1% to 10% probability in the next year or at least once in the next 100 years.

² **Community Vulnerability:** Does the hazard present the threat of disaster (Yes)? Or is it just a routine emergency (No)?

³ **Worst Threat:** Identified hazard presents threat of loss of life and property – hazard mitigation activities are identified; **Moderate Threat:** Town is aware of potential hazard impacts.

Source: Hazard Mitigation Plan (2013)

2 **UPDATE THIS TABLE IF ANALYSIS CHANGES FOR 2018 HMP**

3 The Hazard Mitigation Plan provides history and data on each of the types of hazards identified
 4 in the table. Based on the hazards assessment, the Hazard Mitigation Plan found the following
 5 hazards to be the most significant for East Montpelier:

- 6 • Flood/Flash Flood/Fluvial Erosion
- 7 • Winter Storm/Ice Storm/Extreme Cold with Power Failure
- 8 • Hurricane/Severe Storms
- 9 • Dam Failures

10 Due to the frequent and severe nature of flooding events, The Town of East Montpelier believes
 11 flooding is the worst natural hazard facing the town and has been focusing on mitigation efforts
 12 to reduce the impacts from flooding events.

13 A 2018 update to the Hazard Mitigation Plan is being developed at the same time that this 2018
 14 Town Plan is being written.

15 **Flood Resilience**

16 A resilient community is able to recover from adversity, largely using its own resources and
 17 without severe disruptions to its identity or core functions. A resilient community has the
 18 capacity to anticipate, prepare for, respond to, and recover from adversity.

Flooding of land adjoining a stream or river is a natural occurrence. If these floodplain areas were left in their natural state, floods would not cause significant damage. Development has increased the potential for flooding because rainfall that used to soak into the ground or take several days to reach a body of water now quickly runs off streets, parking lots and rooftops and through constructed channels and pipes.

Construction in floodplains and river corridors can also displace floodwaters in areas where it would normally flow or disperse its energy. Structures, fill, roads or bridges can constrict waterways, leading to a higher volume and velocity of flooding impacting upstream and downstream neighbors.

In the past, the public response to floods has been to treat the symptoms rather than the causes of floods – repairing damages rather than preventing them. Additionally, many of the man-made alterations to our waterways have contributed to erosion hazard problems, with some of the traditional “cures” (such as stream channelization) exacerbating the problem they attempt to fix.

Natural & Beneficial Functions of Floodplains

Watercourses and floodplains that are relatively undisturbed limit stormwater and flood damage, improve water quality, reduce soil erosion, protect habitats, and provide aesthetic and recreational benefits. Natural features such as wetlands and river bank forests can be used to help absorb floodwaters and reduce flooding. The Town of East Montpelier’s zoning and flood protection standards have been crafted to protect and preserve these natural areas.



Winooski River in East Montpelier Village after storm
(Terry Allen)

Planning for flood resilience involves flood hazard mitigation efforts to reduce the severity of flood damage and enable communities to recover more quickly from flood events. More sustainable approaches to development and investment infrastructure near rivers and streams are increasingly helping communities become more resilient to future flooding. These strategies include limiting development in flood hazard areas, protecting vulnerable undeveloped lands in the floodplain, locating new development in safer locations, and designing development so it is less likely to increase stormwater runoff or be damaged during flooding.

East Montpelier’s commercial and historic core – East Montpelier Village – sits along the banks of the Winooski River and is particularly vulnerable to economic loss during flooding events. North Montpelier is similarly at risk.

Major flood producing storms have affected the town in the past 100 years. The town’s infrastructure incurred \$275,000 worth of damage during the May 2011 flood event. Roads and bridges took another hit during Tropical Storm Irene later that year.

The town has already taken a number of important steps to reduce flood impacts:

- ✓ Identification of flood hazards and mitigation strategies in the Town Plan;
- ✓ Adoption of a FEMA-approved Hazard Mitigation Plan;
- ✓ Regular Bridge and Culvert assessment and maintenance programs;
- ✓ Adoption of updated Road and Bridge Standards;
- ✓ Adoption of an annual Local Emergency Operations Plan; and
- ✓ Adoption of Land Use & Development Regulations that address flood hazards, both floodplain and river corridors.

Continued maintenance of these actions positions the town to receive the highest possible state contribution to total disaster project costs. The Vermont Emergency Relief and Assistance Fund (ERAF) provides state funding to match federal public assistance after federally-declared disasters. Eligible public costs are reimbursed by FEMA at 75%. The State of Vermont also contributes a share of the cost (7.5%, 12.5% or 17.5%), depending on what specific steps a town has taken to reduce flood damage.

Participation in the National Flood Insurance Program helps the town mitigate flood damage through limiting development in floodplains, as well as helping property owners located in floodplain obtain flood insurance.

In addition to regulating new development in floodplains and river corridors, the town's *Land Use and Development Regulations* require that all new structures have a 50-foot setback from surface waters with a 25 foot vegetative buffer. Both requirements help improve stormwater infiltration and limit flood damage.

Additionally, the town has two conservation overlay districts. The wetland overlay district with a minimum 50-foot buffer protects wetlands and helps preserve their ability to slow and absorb floodwaters. The high elevation overlay district restricts development in areas over 1,500 feet in elevation; keeping these higher elevations in agriculture or forests helps rainfall infiltrate naturally and reduces fluvial erosion.

A new state requirement for towns to have a Municipal Roads General Permit is intended to reduce stormwater-related erosion from municipal roads. Towns will be required to implement a customized, multi-year plan to stabilize their road drainage system. The plan will include bringing road drainage systems up to basic maintenance standards, and additional corrective actions to reduce erosion. Although the primary purpose of the municipal roads general permit is to reduce erosion and nutrients that adversely affect water quality, implementation of the permit will help make town roadways more resilient during heavy rainfall and flood events.

Goals and Actions

- **Goal 5.8:** Minimize potential damage from natural disasters and strengthen the community's ability to anticipate, respond to, and recover from natural disasters.

❖ **Policy 5.8:** *East Montpelier's Hazard Mitigation Plan (2013 or subsequently adopted plan) is incorporated into this town plan by reference.*

✓ **Action 5.8.1:** Implement the projects identified in the *Hazard Mitigation Plan*.

✓ **Action 5.8.2:** Implement the plans and projects for the Municipal General Roads permit.

✓ **Action 5.8.3:** Include funding for hazard mitigation projects in the town budget and Capital Improvement Plan.

✓ **Action 5.8.4:** Establish a standing Town Emergency Management Committee to maintain and coordinate implementation of the Hazard Mitigation Plan.

✓ **Action 5.8.5:** Ensure that residents and business owners are aware of natural hazards and ways to protect themselves and insure their property.

This goal cuts across other areas. See action in Natural Resources (9.3.1).

Chapter 6

INFRASTRUCTURE

A. TRANSPORTATION

History

The road system in evidence today was developed early in East Montpelier's history. A map of 1858 shows a road pattern almost exactly the same as today. Center Road appears on a 1792 map as an early stage route between Montpelier and Newport. All town roads were gravel- and dirt-surfaced until the 1930s, when paving began on the state routes.

From 1849 to 1956, trains operated on a line between Montpelier and Wells River. The East Montpelier stop, "Fairmont," was located on VT 14 south of East Montpelier Village and provided transportation for dairy products as well as passenger service.

The town also was served for a time by the Fairmont Flying Service airstrip located in the area known as Paul's Square near the old airport hangar on VT 14.



Current Status

Map 5 shows the town's network of transportation infrastructure.

The principal mode of transportation within East Montpelier is the private automobile. However, bus service between St. Johnsbury and Montpelier and Barre is increasingly convenient. A new Park and Ride facility near the intersection of US 2 and VT14 provides a place to park for ride sharing and bus service. Bicycling is used by some for transportation, but is primarily recreational. New sidewalks and bicycle lanes in East Montpelier Village will facilitate walking and cycling, but they do not exist in other areas of town.

The nearest passenger and rail service is located in Montpelier. The Edward F. Knapp Airport in Berlin is a general aviation facility serving the region; the airport does not have scheduled airline service.

Roads and Legal Trails in East Montpelier

State Highways (US 2, 14, 214) = 12.09 miles

Class 2 Town Highways = 19.14 miles

Class 3 Town Highways = 43.11 miles

Class 4 Town Highways = 1.57 miles

Legal Trail = 3.20 miles

Total Maintained Roads = 74.34 miles

Total All Road Rights-of-Way = 79.11 miles

The town's current road network covers approximately 74.3 miles and includes two arterial roads (US 2 and VT 14), five collector roads (County Road, Towne Hill Road, Center Road, VT 214, and Gallison Hill Road), and approximately 47 miles of residential roads providing access to homes and farms.

Traffic on town roads ranges from light to moderate. Traffic is increasing everywhere,

especially during commuting hours, and particularly along collector roads. Excessive speeds have been cited by many residents as a significant concern. Most roads have a posted speed limit of 35 mph. Center Road has a posted speed of 25 mph in East Montpelier Center. County, Center, and Towne Hill Roads have been posted at 40 mph. Road postings occurred over concerns that people were driving too fast. Problems also arise when multiple curb cuts cause traffic conflicts.

Arterial Roads

East Montpelier has two arterial roads. US 2 passes through the eastern part of town, from the Montpelier city boundary to the village of Plainfield, and is the major link between Montpelier and St. Johnsbury. The second arterial road, VT 14, enters at the Barre Town boundary and passes through East Montpelier Village and North Montpelier.

The US 2 and VT 14 intersection at the northern end of East Montpelier Village was reconstructed in 2010 and is now a signalized T-intersection with left-turn lanes. Sidewalks, crosswalks and a pedestrian walk signal were also part of this project.

A reconstructed bridge over the Winooski River (Bridge #68) will be installed in 2018 and includes a second signalized intersection at the south end of East Montpelier Village, a left turn lane, sidewalks and crosswalks. Soon after this is completed, new sidewalks and a bike lane will be added to provide sidewalks and bicycle lanes along the entire length of the Lower Village.

The Singing Bridge in North Montpelier was replaced in 2011 with a bridge that includes a sidewalk on one side.



The old VT 14 bridge will be replaced in 2018 (Terry Allen)

1

2015 Arterial Road Traffic Volumes (AADT)*				
Road	Vehicle Trips ¹	Segment Starts	Segment Ends	Segment Length
US 2	9,700	Barre Town line	Towne Hill Road	2.0 miles
US 2	10,500	Towne Hill Road	VT 14S	.73 miles
US 2	13,100	VT 14S	VT 14N/Quaker Road	.21 miles
US 2	8,400	VT 14N/Quaker Road	Plainfield Town Line	1.98 miles
VT 14	3,900	Barre Town Line	US 2	2.47 miles ²
VT 14	3,400	US2/Quaker Road	VT 214 (N. Montpelier)	3.13 miles
* Data represents the calculated Annual Average Daily Traffic (AADT) volume for road listed. All AADT's are combined two-way volume of the road				
¹ Estimated trips based on actual traffic data on adjacent traffic sections.				
² Joins .21 miles of US 2 in East Montpelier Village				
Source: VTrans and CVRPC				

2 Collector Roads

3 Collector roads generally provide a direct link between larger arterial roads and often carry
4 cross-town as well as local traffic.

5 • **County Road**, which runs from the Montpelier city line to Calais, serves as a major
6 collector for residential roads in both towns. Conflicts exist between residential uses that
7 would like traffic to move more slowly and commuters wanting a quick easy route
8 between home and work.

9 • **Towne Hill Road** is a heavily used cross-over between Montpelier and US 2 near East
10 Montpelier Village. The intersection at US 2 is heavily used. The road is an access route
11 to U-32 Middle/High School. There has also been increasing residential development
12 along Towne Hill Road and connecting residential roads feeding into it.

13 • **Gallison Hill Road** runs from Towne Hill Road to the Montpelier city line at U-32
14 Middle/High School. The road carries considerable traffic but serves primarily as access
15 to the school. The intersection with Towne Hill Road is heavily used. Gallison Hill is
16 identified in this Plan as a potential growth area.

17 In 2017 the town hired a firm specializing in transportation planning to study the
18 intersection of Towne Hill and Gallison Hill Roads. High traffic volumes, poor site
19 distances, and the potential for accidents raised concerns among nearby residents. Many
20 U-32 students pass through this intersection, which is also used by pedestrians and by
21 bicyclists.

22 • **VT 214**, the Plainfield-North Montpelier state highway, is a collector road connecting US
23 2 and VT 14. It serves residents of Plainfield and Marshfield, Goddard College, and
24 Northwood Village.

25 • **Center Road** is paved into East Montpelier Center and then becomes a gravel road
26 continuing north to Adamant. It is very scenic and exemplifies the town's rural character.
27 It passes through the historic hamlet of East Montpelier Center, and along narrow rural
28 roads, some canopied with old maple trees. Residents of East Montpelier Center have

expressed concerns about excessive traffic speeds through the historic village. In 2016 the town decreased the speed limit on Center Road through the village area to 25 mph.

Traffic volumes are monitored by the Vermont Agency of Transportation. The table below shows traffic patterns on East Montpelier's collector roads. In general, traffic volumes have been consistent over the last ten years.

Collector Road Traffic Volumes (AADT)*								
Road	2009	2010	2011	2012	2013	2014	2015	2016
County Road	1300	1400		1300	1200			1400
Towne Hill Road	2500	2600		2200	2400			2400
Gallison Hill Road	1600				1600			1800
VT Route 214			720		660		680	530
Center Road	570				580			
*Data represents the calculated Annual Average Daily Traffic (AADT) volume for road listed. All AADT's are combined two-way volume of the road. Source: VTrans and CVRPC								

Residential Roads

The majority of road mileage in East Montpelier is classified as residential. Most residential roads are gravel, and many are quite scenic. Most of the residential network is in adequate to good condition. A delicate balance must be struck between the need for better road maintenance to serve an increasing population of commuters and the desire to keep the narrow, traffic-slowing rural nature of the road network.

Class 4 Roads

In addition to the normally traveled roads, the town also owns 1.57 miles of Class 4 or rough roads. Some of these roads serve as driveways, others as informal trails. Some are navigable in a vehicle and others are not. These roads are not maintained by the town and no state funding is provided.

Legal Trails

Until recently Class 4 roads and legal trails were classified together but are now a separate category. There are six legal trails totaling 3.2 miles. Each section is less than a mile in length. One serves as a driveway, others have been incorporated into the East Montpelier trail system.

Ancient Roads

Ancient Roads are old town rights-of-way that are no longer in use or identified on town maps. In many cases property owners assume that these areas are part of their land. In 2006 the legislature created Act 178, which provided a process by which towns could identify ancient roads and either adopt them as Class 4 Roads or Legal Trails, or allow the land to revert to the adjacent landowners.

The East Montpelier Selectboard appointed a committee to study this issue. Most of East Montpelier's old roads have continued to be in use or were identified in records, so there were few ancient roads that required investigation. Of nine ancient corridors, two were given further study based on public comments. These roads connected Sibley Road to Lightening Ridge in Calais. Records for these road corridors were incomplete and no determination could be made about the road's exact location and status. Therefore, the committee recommended that the Selectboard do a mass discontinuance of all possible town roads not identified on the official Vermont Agency of Transportation Highway Map.

Town Road Policies

In 2012, the Selectboard approved two policies for the upgrading and acceptance of roads. The first relates to Upgrading Class Four Roads to Class Three Roads. The second relates to the Acceptance of New Town Roads. The policies address issues of cost, standards and appropriateness. The new town roads policy states: "The Selectboard does not encourage additional town roads, with the associated costs of their maintenance."

Highway Budget

Federal and state governments pay for all of the costs of maintaining federal and state highways (US 2, VT 14 and VT 214). The town, with some federal and state financial assistance, is responsible for the repair and maintenance of town roads.

The town's highway budget for FY18 totaled \$651,170, or approximately 29% of the town's total expenses. This budget was divided among Operations (57%), Town Garage (2%), Equipment Repairs (9%) and Labor (32%). In addition, the town manages highway capital costs, such as paving, trucks, and heavy equipment, through its capital reserve fund. The 10-year capital plan (FY18-27) projects average annual highway capital expenditures of \$368,000. Most funding for local road expenditures comes from local tax dollars, however, the town receives state funding on a per-mile basis, which in FY17 amounted to \$144,158. The town also receives a variety of state grants that help offset the costs of maintaining highway infrastructure.

Road Maintenance

The town road crew consists of four full-time employees, supplemented by part-time staff as needed. The town's road equipment is described annually in the Town Report. The road crew's primary objective is to clear and maintain the town's more highly travelled roads, filtering out to smaller less traveled roads. The town purchases gravel, crushed granite and sand from neighboring towns. A town owned gravel pit was abandoned many years ago.



Mike Garand, long-time Road Foreman, retired December 2017
(Terry Allen)

1 Heavier and more frequent storms have increased road maintenance requirements. New
2 techniques have been employed to make roads more resilient to storm damage and increased
3 runoff. Several statewide efforts to improve water quality in Lake Champlain, and to reduce
4 roadside runoff to aid flood resiliency, offer guidance and sometimes financial assistance. These
5 approaches include: ensuring culverts are properly sized and installed in ways that don't prevent
6 fish from moving upstream; slowing down water runoff by using coarse materials in roadside
7 ditches; and retaining vegetation along roadsides.

8 These efforts complement earlier programs to beautify roadsides by encouraging the growth of
9 large trees such as maples and sometimes planting new trees. These efforts are led by the Town
10 Forest Committee and the Tree Warden. The committee works with the Road Foreman and
11 landowners when tree removals are considered within the town right-of-way.

12 An increasing issue along the town's roadsides is the spread of invasive species such as wild
13 chervil and wild parsnip. To some extent, road maintenance can exacerbate the spread if grading
14 equipment moves seeds along the road, or fill is contaminated with seeds of invasive species.
15 Some invasive species can be reduced by early roadside mowing. Others need a more town wide
16 effort to control.

17 Access Management

18 The efficiency and safety of all town roads are directly affected by the frequency and location of
19 points of access or curb cuts. The design of curb cuts is also important in terms of drainage and
20 road maintenance. Some access management methods are appropriate to residential
21 development, others to non-residential development, and some equally to both. Specific
22 standards cited in the Central Vermont Regional Transportation Plan for improving access
23 management include the following:

- 24 • Minimum sight distances at a driveway or road intersection;
- 25 • Maximum number of driveways per lot;
- 26 • Mandatory shared driveways; and
- 27 • Optimal corner turning radius.

28 Measures such as these may be incorporated in zoning and subdivision bylaws as well as curb
29 cut permits. Consistent and comprehensive access management policies are necessary to balance
30 the needs of motorists, pedestrians, bicyclists, and other users of the roadway system to travel in
31 safety and efficiently.

32 The state Agency of Transportation must approve all new points of access on state highways.
33 The Selectboard must approve new points of access on town roads. It is the policy of the town of
34 East Montpelier to minimize new curb cuts wherever possible.

Public Transportation

The former Green Mountain Transit Authority merged with the Chittenden County Transit Authority to form a new public transportation agency: Green Mountain Transit (GMT). GMT's Capital District Region serves Washington and Lamoille Counties and a few towns in Orange County.

GMT and Rural Community Transportation (RCT) jointly operate the US 2 Commuter bus (Route #84) between Montpelier and St. Johnsbury. This bus route runs along Towne Hill Road out of Montpelier and then along US 2 towards Plainfield, stopping at the Park and Ride facility in East Montpelier Village. The route has two morning runs and two afternoon runs. Connections can be made in Montpelier to other GMT bus routes. GMT has been evaluating a possible route on VT 14.



New Park & Ride in East Montpelier Village (Jean Vissering)

GMT provides additional public transportation services for persons needing medical care, the elderly and disabled.

- The Health Center Community Shuttle (Route #90) provides service by appointment to and from the Health Center in Plainfield (call 802-223-7287).
- GMT offers direct non-emergency critical care transportation for those who qualify. Enrollment is limited, with services based on available funds (call 802-223-7287).
- GMT offers special transportation services for individuals who are 60 years of age or older and individuals with disabilities. Services include transportation for non-Medicaid medical appointments, meal sites, senior centers, shopping and pharmacy trips, radiation and dialysis treatment and general daily needs. Enrollment is limited, with services based on available funds (call 802-223-7287).
- GMT provides and coordinates Medicaid transportation services to eligible individuals for medically necessary and approved trips (call 802-223-7287).

Ride Sharing

Ride sharing, also known as carpooling, is a sociable way to partner with someone else to get to where you both want to go. Ride sharing saves gas money, wear and tear on your vehicle, and – just as important – builds a relationship and sense of community.

On an informal basis, East Montpelier residents often share a ride with neighbors to get to work or meetings. Residents frequently post on Front Porch Forum, looking for a ride to the airport, Boston or New York City.



Residents seeking a regular ride share to work, or a ride to a meeting or conference, can use a state program called Go! Vermont. Go! Vermont helps match users with carpools and vanpools (see www.connectingcommuters.org).

The new Park and Ride lot, on VT 14 across from the Town Office in East Montpelier Village, makes it easier for residents to meet each other to share a ride. Residents on the other side of town often use the VT Department of Labor parking lot or the Montpelier Park and Ride lot near I-89 to connect for ridesharing.

Commuter Programs

Capital Commuters is a new program run by the Vermont Agency of Transportation. It is designed to provide state employees an alternative to driving alone to work. The objective is to encourage state employees to take transit or rideshare, and to reduce some of the pressure on parking in Montpelier (see www.connectingcommuters.org/capital-commuters/).

Incentives include:

- 50% off commuter bus passes;
- A guaranteed ride home;
- VIP parking for carpools and vanpools; and
- Prizes for walking or biking to work.

Bicycle and Pedestrian Facilities

In various surveys and public forums, residents have indicated that they would like to have our roads and villages more bicycle and pedestrian friendly. Sidewalks, safer shoulders and marked bicycle lanes would help accomplish this.

Sidewalks and a signalized crosswalk were installed at the northern end of East Montpelier Village in 2015. Additional new sidewalks connecting the new VT 14 bridge near the south end of the village will be completed in 2018.



Crosswalk in East Montpelier Village (Julie Potter)

1 There will also be a bike lanes on US 2 through the village center. Map 6 shows the location of
2 current sidewalks (including sidewalks to be constructed in 2018), as well as proposed
3 sidewalks/bike paths in East Montpelier Village.

4 Bicycling and walking throughout East Montpelier is a common activity along town roads and
5 the excellent trail network. Bicycles are permitted on many of trails. The Montpelier Area
6 Mountain Biking Association (MOMBA) has developed a few bicycle trails in town.

7 The Cross Vermont Trail Association is in the process of constructing a multiuse trail connecting
8 Burlington and Wells River Vermont. A new bridge will be constructed over the Winooski
9 River, and portions of the old Wells River Railroad bed are currently accessible for biking,
10 walking, skiing and snowmobiling. Completion of the link through East Montpelier is
11 anticipated within the next 10 years.

12 **Transportation Energy Conservation**

13 Transportation plays an important role in energy use and the potential for conservation. The East
14 Montpelier Energy Plan identifies past efforts that have helped to reduce our transportation
15 footprint, as well as a number of action items that will be important to pursue in the future in
16 order to meet our energy conservation goals. Important actions will include encouraging the use
17 of public transportation and ride sharing, making electric vehicle use more convenient, and
18 making walking and bicycling safer and easier.

19 **Regional Coordination**

20 It is important that local land use and transportation decisions are considered in the context of the
21 regional transportation network that serves East Montpelier. In addition to the need to
22 coordinate planning for alternate transportation modes, such as public transit, with neighboring
23 communities, it is important to consider local highway improvements in a regional context.

24 East Montpelier appoints a representative to the Transportation Advisory Committee (TAC) of
25 Central Vermont Regional Planning Commission. The TAC helps develop the regional
26 transportation plan and provides regional input to the prioritization of state transportation
27 projects in the region.

28 **Goals and Actions**

29 ➤ **Goal 6.1:** Manage road network cost effectively.

30 ❖ **Policy 6.1.1:** *Accept new town roads only in accordance with East Montpelier Road*
31 *Policies.*

32 ➤ **Goal 6.2:** Ensure that the road network provides safe and adequate transportation for all road
33 users, balanced with retaining the scenic and natural character of roadways.

34 ✓ **Action 6.2.1:** Ensure that all state transportation projects meet the goals of this plan,
35 including accommodating pedestrian and bicycle use and protecting the character of the
36 roadside.

- 1 ✓ **Action 6.2.2:** Provide safe, attractive and convenient pedestrian and bicycle facilities in
2 East Montpelier Village. Priorities are sidewalks and bicycle lanes connecting the Upper
3 Village to the Lower Village, and the Lower Village to East Montpelier Elementary
4 School.
- 5 ✓ **Action 6.2.3:** Provide marked bicycle lanes with all new paving projects.
- 6 ✓ **Action 6.2.4:** Improve safety and reduce traffic speeds at the Towne Hill and Gallison
7 Hill Road intersection.
- 8 ✓ **Action 6.2.5:** Protect roadside trees and plant additional trees where appropriate.
- 9 ✓ **Action 6.2.6:** Notify the public and allow public comment prior to significantly changing
10 the character of any road through widening, cutting of live trees within the public right-
11 of-way, or paving.
- 12 ➤ **Goal 6.3:** Reduce traffic speeds and improve safety in villages and areas with pedestrians
13 and bicyclists.
- 14 ✓ **Action 6.3.1:** Implement traffic calming measures in villages and areas with pedestrians
15 and bicyclists.
- 16 ➤ **Goal 6.4:** Encourage shared road access to minimize highway congestion and strip
17 development.
- 18 ❖ **Policy 6.4.1:** *Minimize new curb cuts whenever possible.*
- 19 ✓ **Action 6.4.2:** Update *Land Use and Development Regulations* to encourage shared road
20 access.
- 21 ➤ **Goal 6.5:** Support use of public transit and ridesharing.
- 22 ✓ **Action 6.5.1:** Support expanded public transportation availability and frequency.
- 23 ✓ **Action 6.5.2:** Expand opportunities for carpooling and park and ride facilities.
- 24 ➤ **Goal 6.6:** Encourage use of renewable fuels for transportation.
- 25 ✓ **Action 6.6.1:** Encourage installation of electric vehicle charging stations at businesses
26 and public parking areas.
- 27 ➤ **Goal 6.7:** Maintain roads to minimize the spread of invasive species and reduce stormwater
28 runoff into streams.
- 29 ✓ **Action 6.7.1:** Promote individual and neighborhood actions to remove roadside invasive
30 plants through information and education.
- 31 ✓ **Action 6.7.2:** Maintain roads in a manner that reduces storm water runoff and retains
32 roadside vegetation.
- 33
- 34

B. SOLID WASTE DISPOSAL

History

Until the middle of the twentieth century, the disposal of solid waste was not a substantial problem in Vermont. In a less consumer-oriented society, people did not generate a great amount of solid waste. The little that was created was burned or went into backyard junk piles, many of which yield interesting treasures today. Until 1970, a dump operated in Plainfield off the North Montpelier Road where it was a Saturday morning tradition to bring your trash and meet your neighbors. A local radio station even offered “music to go to the dump by.” That dump closed in 1970 when the Central Vermont (CV) Landfill opened on US 2 in East Montpelier.

Over time the public has become more aware of the problem of solid-waste disposal and the danger of related pollutants. Much more waste than ever before is being generated. In 1987 the General Assembly passed Act 78, which stresses reducing the generation of solid waste, and reusing and recycling waste that is generated. Act 78 established solid waste districts and mandated the lining of landfills and the closure of others. Along with other towns in the Central Vermont area, East Montpelier formed the Central Vermont Solid Waste Management District (CVSWMD). Each member town has one representative appointed by its town legislative body.

In the early 1990s, Act 78 was amended to require any remaining unlined landfills to obtain a special permit to continue operations after September 30, 1992. The CV landfill was closed in 1993. The current owner, Casella, operated a transfer station and recycling center at the site. This facility is now only open to larger truck deliveries.

In 2003, CVSWMD became the largest group of municipalities in the U.S. to adopt a Zero Waste Implementation Plan. Zero Waste is simply a “No-Waste,” sustainable approach to managing the production and life cycle of goods. Such an approach is very much in keeping with the Vermont traditions of thrift and conservation.

Current Status

From the work place to everyday household trash, solid waste should be an issue of great concern to everyone. The average household in East Montpelier spends as much as \$40 to \$60 per month to dispose of household trash, not including expenses for additional waste disposal during spring cleaning or construction projects.

CVSWMD continues to provide leadership, education and services for residents and businesses in reducing and managing their solid waste, in order to protect public health and the environment to the greatest extent feasible.

In 2016, the CVSWMD Board adopted a Solid Waste Management Ordinance, which became effective on August 1, 2016. This ordinance consolidated four previous ordinances addressing flow control, waste management and mandatory recycling, solid waste fees, and variable rate pricing. The ordinance establishes a new administrative fee for materials used for beneficial

reuse. The ordinance also clarifies enforcement proceedings and adds remediation standards to lessen hazards or nuisances that are created as a result of ordinance violations.

Trash

Beyond their regulatory role, CVSWMD oversees waste management facilities in the region, offers programs to recycle or dispose of a wide range of waste materials, and provides educational programs for schools, businesses and residents.

Transfer stations are solid waste drop-off and collection facilities that accept trash, recycling, leaf and yard waste, and food scraps for disposal. The transfer stations are privately operated, and some accept additional materials. Residents can take their waste to any of the transfer stations. The nearest transfer stations to East Montpelier are:

- Earth Waste and Metal, Wilson Depot, 109 Pitman Road in Barre Town
- Casella Resource Solutions, 378 East Montpelier Road in Montpelier
- Calais Transfer Station, Moscow Woods Road in Calais

“Bag drops” are locations where licensed private operators will accept trash at a particular location only for the times when they are open. At the end of those working hours, the operator’s equipment is moved. Paul’s Trash operates a bag drop in East Montpelier Village.

Residents and businesses who do not wish to do their own trash drop off can use any of the many private haulers who are licensed to pick up trash.

Non-recyclable waste from the CVSWMD service area is landfilled at the lined facility in Coventry, Vermont, the only open landfill left in the state.

Recycling

In 2012, the Vermont legislature passed Act 148, Vermont’s Universal Recycling Law. Act 148 represents the most substantial update to the state’s solid waste management system in 25 years. The new state law



matches CVSWMD’s Zero Waste vision. Under the law, the state established a materials management plan with the following objectives:

- Prevent waste from being generated;
- Promote sustainable materials management, with a preference for highest and best uses;
- Minimize reliance on waste disposal (landfilling and incineration); and
- Conserve resources, minimize energy consumption, and reduce greenhouse gas emissions and other adverse environmental impacts.

1 The law effectively bans disposal of three major types of waste: “blue bin” recyclables
2 (effective July 2015); leaf and yard debris (effective July 2016); and food scraps (organic,
3 compostable kitchen wastes (effective July 2020).

4 Waste haulers are required to accept “blue bin” recyclables, and will have to implement organics
5 collection. Currently, organics can be composted at home, dropped off at transfer stations, or
6 taken to the Additional Recyclables Collection Center (ARCC) in Barre or Vermont Compost on
7 County Road in East Montpelier. CVSWMD also offers information on composting and will sell
8 basic composters or Green Cones for at-home management of organic recyclables.

9 Some of the regional transfer stations also accept:

- 10 • Construction and demolition materials
- 11 • Scrap metal
- 12 • Electronics
- 13 • Appliances (refrigerators, freezers, AC units, , washing machines and dryers, etc.)
- 14 • Bulky waste (carpets, mattresses, furniture)
- 15 • Tires

16 CVSWMD’s Additional Recyclables Collection Center will accept a wide range of hard-to-
17 recycle wastes. Some businesses will also accept certain wastes for recycling, such as batteries
18 and paint. The A to Z Guide on CVSWMD’s website identifies what can be done with different
19 types of wastes, and where they can be taken.

20 There are several recycling facilities in the region that are permitted to handle
21 commercial/industrial waste. Barre Granite Association has a granite sludge facility on VT 14S
22 in East Montpelier.

23 **Hazardous Waste and Special Collections**

24 CVSWMD does not have a permanent hazardous waste collection facility. It does, however,
25 schedule collections of hazardous waste, fluorescent bulbs and smoke detectors at various
26 locations around the region. The schedule is typically announced on Front Porch Forum and
27 posted on CVSWMD’s website. If a resident has hazardous wastes that must be disposed of
28 before a scheduled collection, Chittenden Solid Waste District’s facility in Williston will accept
29 the waste for a fee.

30 **Special Programs**

31 CVSWMD offers programs for residents, businesses, schools and other institutions to assist
32 those in the district with reducing the amount of waste generated, as well as the amount of waste
33 entering the waste stream. This is consistent with the state's mandate for solid waste districts and
34 CVSWMD’s mission of leading member communities to reduce waste. These programs have
35 helped thousand of residents access hazardous waste collections events, set up home composting
36 options, divert food waste from the landfill, and taught multitudes of students about the food
37 cycle and the importance of composting both at home, school and work.

CVSWMD also offers a grant program to help towns with solid waste problems. The grant program provides financial support to communities that need to take action to clean up, mitigate, and prevent unanticipated solid waste problems caused by nature or by illegal activity, or other special projects. The grant program is intended to provide financial assistance to member towns to address an immediate need, and – if possible -- to prevent its recurrence. East Montpelier used one of these grants to offer a workshop on composting.

Roadside Dumping

Roadside dumping, from tires to appliances to everyday trash is an environmental, as well as safety and aesthetic, issue. Two programs, Green-Up Day and Adopt-a-Site, attempt to reduce or eliminate illegal litter. In 2017, Green-Up day volunteers collected 260 pounds of garbage and 41 illegally dumped tires. State law prohibits depositing junk cars and garbage on lands of others or within 300 feet of the lands of others, or into waterways, or within view of a public road. If a person violates this law, a town appointed enforcement officer can issue a ticket carrying a fine of up to \$500.



Trash Pick-Up at EMES on Green-Up Day
(Alex Brown)

Consumer and Business Purchasing Choices

Zero waste systems will ease the economic and environmental burden of raw resource extraction. Achieving zero waste means working on many levels to salvage all of the resources in “waste products” so they can be reused and recycled in this region. Having manufacturers use non-toxic, recycled, and recyclable materials in their production and offering take-back recycling programs for their products is important to the success of zero waste efforts. Many private waste management companies now use zero waste principles to guide their work and increase their profits, while governments and municipalities worldwide actively promote a zero waste future as the only way to go. Sound consumer and business purchasing choices play an important role.

Goals and Actions

- **Goal 6.8:** Minimize and manage solid waste in collaboration with the Central Vermont Solid Waste Management District. (CVSWMD)
 - ✓ **Action 6.8.1:** Enforce local ordinances regulating burning, dumping, storage and other disposal of solid waste in order to protect the health and safety of the community.
 - ✓ **Action 6.8.2:** Support Green-Up Day and Adopt-a-Site community efforts, and provide educational waste minimization programs.
- **Goal 6.9:** Minimize waste generation in town government and the schools.
 - ✓ **Action 6.9.1:** Ensure that purchases and operations consider solid waste minimization throughout the lifecycle of projects and acquisitions.

C. WASTEWATER TREATMENT

History

Until the last half of the twentieth century, household, farm, and industrial wastewater was not a major concern. Many residences and farms did not have running water and indoor plumbing, and outhouses were the norm until the 1930s. Mills and factories usually were located on rivers and discharged their industrial waste directly into the water. As the population grew and indoor plumbing became popular, many residences and businesses piped their wastewater directly to rivers and streams.

Eventually, residents became more and more concerned about the high level of water pollution, and all levels of government began to regulate wastewater management. The state Water Resources Department conducted water pollution surveys to identify sources of pollution and many residences and businesses were ordered to abate pollution by installing septic tank and leach field systems. Thousands of systems were installed across the state during the 1960s. However, the design and construction of these systems was not very sophisticated, and many that are still in existence do not treat wastewater sufficiently and are prone to failure. They create health hazards on the ground surface or may not be treating the wastewater sufficiently to prevent groundwater and surfacewater contamination.

Between 1987, when a town sewage ordinance was adopted, until 2003 more than 300 wastewater treatment systems were approved. Sixty percent of these were for the traditional in-ground septic tank leach field systems. Thirty-eight percent were for mound systems, where limiting conditions (either high seasonal ground water or bedrock) required sand to be imported to create the additional soil depth needed for proper treatment of effluent. The remaining systems approved in recent years were for sand filter systems, at-grade systems (like a mound but without the sand), and an alternative peat moss filter system.

In 1989 the Selectboard appointed a committee to study the possibility of constructing a public sewage system in East Montpelier Village and North Montpelier. The committee completed its work in 1992 and recommended that the town study the following options:

- Connecting to the Montpelier sewage system via US 2, Gallison Hill, or County Road;
- Connecting to the Plainfield sewage system via US 2 or VT 214; or
- Developing a municipal system within one or both villages, or several smaller scale systems.

In 2005 the town was awarded planning grant funds from the Vermont Department of Environmental Conservation to hire a consultant who would assess existing failed systems, and determine potential wastewater treatment solutions for North Montpelier and East Montpelier Village, including costs. The consultant recommended that the town develop a detailed wastewater management action plan, and they identified several areas in each village area that could serve as community treatment areas to mitigate systems that have failed, or have the potential to fail, provided the landowners would agree to sell the land for that purpose. The study reported that costs for one or more decentralized treatment areas ranged between \$9.5

1 million and \$13.5 million. The consultants also studied the feasibility and cost of connecting to
2 sewage treatment facilities in either Montpelier or Plainfield. The cost estimates for these
3 connection options ranged between \$10 and \$15 million.

4 As of 2007, the state Agency of Natural Resources (ANR) has jurisdiction over septic system
5 permitting, including new systems and repair and replacement of existing systems. Except where
6 superseded by state regulations, the 2005 East Montpelier Sewage Ordinance remains in effect
7 and the town retains enforcement power over existing town septic permits. Town residents
8 having questions about the town ordinance or state requirements can contact the Zoning
9 Administrator, who is also the town Sewage Officer.

10 **Current Status**

11 The soils in town are varied, and many areas are rated as poor for wastewater treatment. The
12 wastewater treatment capacity of soils in town is generally limited by four major factors: heavy
13 clay, high water tables, shallow depth to bedrock, steep slope, and often a combination of some
14 or all of these factors. This situation has led to frustration for landowners who find that they
15 cannot build where they want to, or in some cases may not be able to build at all. Limitations on
16 septic system sites often narrow the siting alternatives for new homes. On-site conditions may
17 not be suitable for a traditional in-ground septic tank and leach field system. More expensive
18 mound systems are common in town. Other systems approved in recent years have been sand
19 filter systems, at-grade systems, or an alternative peat moss filter system

20 **On-site Wastewater Systems**

21 Owners of on-site wastewater systems are responsible for operating and maintaining their
22 systems. Conventional systems require inspecting and pumping the septic tank every two to five
23 years. This service is provided by several local businesses that usually place systems on a
24 schedule to ensure against damage to the leach field.

25 However, there are still firms trying to convince system owners to use septic tank additives,
26 claiming that pumping can be delayed or is not needed. Several of these companies have been
27 fined by the state of Vermont for misrepresenting their products or making false claims. The US
28 EPA recommends that all jurisdictions overseeing on-site wastewater treatment systems develop
29 a program for managing these systems so that they will continue to function well.

30 The EPA has published voluntary guidelines for five levels of management. The least rigorous
31 level of management involves, among other things, keeping records of where all on-site
32 wastewater systems are and reminding system users of the need for periodic pumpouts.

33 **Community and Distributed Wastewater Systems**

34 In addition to individual ground-treatment septic systems, there are also several systems that
35 serve multiple homes or connect to other municipal systems. Sandy Pines Mobile Home Park in
36 East Montpelier Village has its own system. The apartment complex at the former Goddard
37 Northwood campus is served by the Plainfield sewer and wastewater treatment system. U-32

High School is served by the Montpelier City wastewater facility. There are also a few residential developments with shared community septic systems.

The lack of a municipal wastewater treatment system in East Montpelier Village has severely constrained growth. Even options for smaller systems serving multiple homes or businesses are limited by lack of suitable soils. Nevertheless, options do exist and there is renewed interest in pursuing these.

In evaluating the development options for the Old LaPerle Farm property, the town has been studying wastewater capacity on the site. Based on recent preliminary studies, there may be capacity for up to 16 to 20 residential units, however, more extensive testing is required. The Selectboard and the Old LaPerle Farm Study Committee are considering these issues and potential for grants that would help with addressing wastewater capacity in East Montpelier Village. There are preliminary indications that other properties within the Village may have potential as well to serve new compact residential and/or business development.

Alternatives to typical in-ground or expensive municipal systems are also being explored. The Wastewater System and Potable Water Supply Program in the Vermont Department of Environmental Conservation (DEC) has approved certain innovative/alternative technologies for wastewater treatment. These approved technologies are available on the DEC's website. In general, smaller community systems serving clusters of residential or business uses are more likely to become a viable alternative for East Montpelier Village. Sacrificing some existing agricultural soils within or near the village may be required.

Goals and Actions

- **Goal 6.10:** Develop wastewater solutions for East Montpelier Village and North Montpelier to support residences and businesses, protect water quality, and allow future growth.
 - ✓ **Action 6.10.1:** Develop a wastewater system suited to the development of the Old LaPerle Farm property in East Montpelier Village.
 - ✓ **Action 6.10.2:** Support the development of distributed wastewater treatment systems in East Montpelier Village and North Montpelier suitable for supporting new residential and community-scaled business growth.
- **Goal 6.11:** Encourage proper operation and maintenance of individual on-site wastewater treatment systems.
 - ✓ **Action 6.11.1:** Provide information on proper operation and maintenance of on-site wastewater treatment systems.

D. ENERGY AND ENERGY CONSERVATION

History

Early settlers in East Montpelier used rivers and streams to provide energy to run the machines of industry. Wood, cut locally, provided fuel for heat, hot water, and cooking. Ice cut from local ponds was stored to provide year-round refrigeration. Lighting was provided by homemade candles or kerosene lanterns. For the most part, early town residents were self-sufficient in meeting their energy needs.

The first rights-of-way for power lines in town, purchased in 1926 by the Montpelier and Barre Light and Power Company, were located along US 2 through East Montpelier Village and along VT 14 to North Montpelier. Later, Green Mountain Power purchased these rights and proceeded to lay out the power lines.



Washington Electric Cooperative (Julie Potter)

In 1939, Washington Electric Cooperative began to install electric lines in the more rural areas of town that Green Mountain Power would not serve. By the end of 1939, 55 miles of line had been installed in an area between East Montpelier and Peacham. The electricity that first flowed on December 2, 1939 was generated in the East Montpelier Village by two 95-kilowatt diesel generators. The greater availability of electricity to rural areas dramatically changed the town, especially its agricultural industry.

During the second half of the twentieth century, American lifestyles depended on increasing use of energy, from more and bigger cars to larger houses and countless appliances. Such expansive energy use has contributed to environmental degradation, climate change, and diminished energy supplies. For the past two decades there has been an increasing focus on renewable energy sources in Vermont and globally. This has been coupled with efforts to conserve energy since the cheapest form of energy is the energy one doesn't use.

Current Status

As of November 2017, East Montpelier residents use electricity, oil, gas, wood, coal, solar, and water (hydro) for heating, electricity, and transportation – roughly 330,000 million British Thermal Units (MMBTU) annually. Approximately one-third of that amount is from renewable sources.

East Montpelier Energy Use		
Purpose	Renewable	Non-Renewable
Heating	37%	63%
Electricity	79%	21%
Transportation	13%	87%
Source: Vermont Energy Dashboard		

1 Thermal Heating Energy Data

2 Wood continues to be a significant source for home heating, along with fuel oil and propane.
3 Both the elementary school and U-32 high school are heated with wood boilers. The Vermont
4 Energy Dashboard identifies 41 sites with solar hot water heaters.

5 Electricity Data

6 Map 7 shows the location of transmission and 3-phase power lines in town, along with electrical
7 substations and hydroelectric power generation sites.

8 The town is served by two electrical utilities: Washington Electric Cooperative (WEC) and
9 Green Mountain Power (GMP). WEC serves 666 meters in town, while GMP serves 614 meters.

10 WEC's electricity is 100% renewably generated. GMP currently procures 60% of its electricity
11 from renewable sources. Vermont's Renewable Energy Standard (RES) requires utilities in the
12 state to provide at least 55% of their electricity from renewable sources in 2017, increasing to
13 75% by 2032.

14 There are limited sources of hydroelectric power generation in East Montpelier. A private
15 company, Winooski Hydroelectric, owns and operates a generation station on the Winooski
16 River off US 2 at the Berlin town line. This location generates and sells about 3 million kWh per
17 year to the Vermont Power Exchange, which distributes electricity to utilities throughout the
18 state – about as much energy as would be used by 480 homes. A small, privately-owned facility
19 in North Montpelier on the Kingsbury Branch sells about 500,000 kWh annually to the Vermont
20 Electric Power Producers Inc. (VEPPI), enough to serve about 120 homes.

21 As of December 2017, the Vermont Energy Dashboard identifies 135 solar electric installations,
22 a capacity of 1181 kW. The largest array in town is the Lazar group net-metered array on US 2
23 with 500 kW capacities. The second largest installation is the 100kW solar array at the
24 McKnight Farm.

25 Transportation Energy Data

26 According to data from the Central Vermont Regional Planning Commission, East Montpelier
27 residents own 2,018 vehicles and drive an average of 12,500 miles per vehicle per year (less than
28 the state average of 15,000 miles/year). We use a total of 1,356,183 gallons of fuel per year for
29 transportation. Our use of renewable energy for transportation is increasing, as more people
30 purchase electric vehicles. According to the Vermont Energy Dashboard, 13% of our
31 transportation energy is renewable.

32 Energy Efficiency Data

33 Vermont utilities, organizations, and homeowners are increasingly recognizing the value of
34 efficient use of energy. Efficiency Vermont, the state's energy efficiency utility, provides
35 advice, funding, and expertise to homeowners, businesses, and farms. Several Vermont utilities
36 have rate structures that favor low-usage customers. Many houses have been renovated to
37 improve efficiency, but the demographic trend towards smaller household size means that, for
38 the same population, more houses are required. Thus the average electricity consumption per

person tends to increase. Nevertheless, newer homes must now be built to minimum efficiency standards.

Act 174 and the East Montpelier Energy Plan

The goal of the 2016 *Vermont Comprehensive Energy Plan* is to supply 90% of our total energy needs from renewable sources by 2050. This goal would reduce greenhouse gas emissions by 75%. To meet the statewide goal, every community is expected to increase its share of energy conservation and renewable energy generation.

Act 174, passed in 2016, establishes a new set of municipal and regional energy planning standards. Prior to Act 174, towns had little authority over utility permitting and siting, which is regulated by the state. Towns with an approved energy plan will receive “substantial deference” by the Public Utilities Commission (PUC, formerly known as the Public Service Board) during the Section 248 state energy permitting process. Meeting these planning standards is voluntary; if regions and municipalities do not wish to develop energy plans, they will continue to receive “due consideration” in the Section 248 process. By adopting a municipal energy plan, East Montpelier will have input into how and where renewable energy is generated in town.

Energy plans must meet standards in four areas: conservation and efficiency, transportation, land use, and siting. East Montpelier’s Energy Committee, in cooperation with the town and regional planning commissions, has developed a Draft East Montpelier Energy Plan to meet these standards. The energy plan includes the required elements: Analysis and Targets, Pathways and Implementation Actions, and Mapping. When finalized, the municipal energy plan will be incorporated into this Town Plan by amendment.

East Montpelier proposes specific actions to support the goal of 90% renewable energy use by 2050. These actions encompass greater efficiency, alternative modes of transportation, renewable sources, smart land development choices, and building code compliance.

Conservation and Efficiency

The town Energy Committee, founded in 2008, has a goal to significantly reduce carbon dioxide to support the state’s goals of 90% renewable energy by 2050. The Energy Committee believes that energy conservation and efficient use of energy is the most important component of the state’s plan. The more energy reduction we achieve, the less energy we will need to generate. Act 174 includes a building efficiency goal of 25% of homes made efficient by 2020. The town does not have the ability to force, or enforce, efficiency standards; we can only promote and encourage town residents and businesses to follow best practices as a way to save money and energy.

Since its inception the Energy Committee has held workshops, participated in energy fairs, received grants for energy efficiency renovations in town offices and the town garage, and created neighborhood networks for encouraging and sharing information.

Renovations of town buildings are saving energy and taxpayer money. The Town Office, fire station, East Montpelier Elementary School, and U-32 Middle/High School have all been upgraded to a high energy standard.

East Montpelier and its Energy Committee have, and continue to, work with statewide organizations to continue to promote home weatherization, energy efficient appliances, and transportation alternatives to improve the town's overall energy footprint.

Since 1998, the Vermont Residential Energy Code (21 V.S.A. §266), also known as the Residential Building Energy Standards (RBES), has set minimum energy efficiency requirements for new residential construction and additions larger than 500 square feet. Effective October 2015, the RBES was updated to reflect updates to the underlying global standard (International Energy Conservation Code; IECC 2009). Vermont also has Commercial Building Energy Standards that apply to new commercial construction.

Transportation

Reducing fossil fuel use for transportation is a challenge for a rural community like East Montpelier. Conserving transportation energy requires reducing single-occupancy trips, increasing walking and bicycling, and increasing use of public transportation. Alternative fuel vehicles, such as electric vehicles, can also help meet energy goals. We cannot force individual choices or enforce planning policy, but we can publicize alternatives and make new habits as easy as possible.

East Montpelier has taken a number of steps to encourage the use of public transit and facilitate bicycle and pedestrian use in East Montpelier Village. In 2017, a new Park and Ride facility was completed in the village. This facility has a bus shelter and is a stop for the Route 2 Commuter bus between Montpelier and St. Johnsbury. The Park and Ride has two Electric Vehicle charging stations. Sidewalks and bike lanes have been constructed in East Montpelier Village. More sidewalks and bicycle lanes are called for by this Town Plan.

Anyone who has driven by one of our schools at the beginning or end of the school day sees a long line of cars dropping off or picking up a single student. We encourage the schools to educate students and their parents about the inefficiency of this practice.

Land Use

A significant goal of this Town Plan is to concentrate future growth within the town's villages and growth areas. Compact communities encourage walking and bicycling and facilitate access to public transportation. When trip origins are closer to trip destinations, even single-occupancy trips use less energy. The recent municipal planning grant award will enable updating the town's *Land Use and Development Regulations* to implement the *East Montpelier Master Plan*, which focuses new compact residential and commercial growth in the village.

New Renewable Energy Siting

Act 174 requires municipal energy plans to analyze and identify areas that are potentially suited to developing various types of new renewable energy facilities, such as wind, solar, hydro and biomass. Towns may also identify preferred sites for new renewable energy production, and develop guidelines for siting of distributed energy generation and related transmission lines. The intent of the guidelines is to minimize:

- Overly restricting the siting of distributed renewable energy, to the detriment of environmental goals and consumer choices, or
- Acquiescing to a “gold rush” of renewable energy installations, with their accompanying negative impact on rural cultural life, equitable payment for electric power, potential grid instability, and subsequent backlash to the further development of renewable energy.

The potential for new large-scale hydroelectric generation is limited in East Montpelier; the suitable locations already have generation facilities. The potential for wind energy development is also limited; no suitable primary wind sites exist, and the small area of secondary wind suitability is in a significant forest block.

Therefore, in order to meet the town’s new renewable energy generation target, the town must rely on solar energy projects. To meet the town’s share of the total goal set by the *Vermont Comprehensive Energy Plan*, an additional 9.5 MW of solar photovoltaic (PV) capacity must be installed within the town by 2050. This corresponds to approximately 76 acres of land devoted to new solar arrays, based on today’s technologies. East Montpelier’s low rolling hills with significant areas of open fields and scrub vegetation is potentially suited to solar development, so there appears to be little impediment to accommodating this goal. Three-phase electric transmission lines are important to support larger solar projects (100 kW or greater). Map 7 shows the town’s existing 3-phase transmission lines.

The scenic quality of East Montpelier’s landscape and its openness make careful siting of development important. Town development tends to be small in scale and new solar development must be consistent in scale and character with existing and future planned development. Siting considerations are generally not intended to constrain smaller net-metering projects (in the range of 10-50 kW) that serve to reduce the net electrical consumption of residences, businesses, or small groups of residences abutting the photovoltaic array. Larger solar projects may be possible in certain preferred areas, but regardless of scale, all solar installations must comply with development standards that will reduce any undue adverse impacts to significant scenic and natural resources identified in this Town Plan.

The Public Utility Commission (PUC) has adopted rules relating to setbacks and aesthetic considerations for new photovoltaic systems (Rule 5.100). These rules apply regardless of whether the photovoltaic system is net metered, standard-offer, utility-owned or not grid-tied. No solar PV installation of any scale should be situated to be an eyesore to a neighbor by reflecting light toward them, significantly blocking a neighbor’s view, or omitting visual mitigation to screen an array from being a dominant feature of the neighbor’s view. In invoking the Quechee Test for aesthetics and the potential need of visual mitigation, a majority of the East Montpelier Selectboard, or a five-person panel chosen from the East Montpelier voter list by the Selectboard, will serve as the voice of the “average person.” Furthermore, siting electric infrastructure and PV arrays in or around wetlands or shorelines must strictly follow state Agency of Natural Resource regulations. Easements controlled by the Vermont Land Trust may require their permission for any type of development, including solar arrays, regardless of size.

All electric customers in the town should have a reasonable opportunity to offset their power usage using PV arrays adjacent to their homes or businesses, with due consideration of the views from local roads and neighboring property owners. While more stringent siting guidelines apply to large-scale projects that are intended to feed power into the regional grid independent of local needs, the town recognizes that solar development may not be restricted differently than other

- 1 types of development. Siting regulations for solar PV arrays must not be inconsistent with town
 2 zoning laws or siting requirements in existing statutes.
- 3 The Draft East Montpelier Energy Plan provides detailed siting and design guidelines, including
 4 issues of scale, location and screening, consistent with the rules for other structures in the *Land*
 5 *Use and Development Regulations*.



The McKnight Farm 100kw solar array seen from The Four Corners Schoolhouse is sited to minimize visual impacts
 (Jean Vissering)

6 Siting Standards

8 The Draft East Montpelier Energy Plan details siting preferences and constraints on sites with
 9 specific characteristics:

- 10 • **Preferred Sites:** The town will support installations at these sites that meet design
 11 guidelines;
- 12 • **Potentially Suitable Sites:** The town may support installations at these sites, but
 13 installers must pay careful attention to siting restrictions in statute; and
- 14 • **Prohibited Sites:** The town will not support installations at these sites because of the
 15 scenic, significant natural resource, or cultural values of the specified areas.

1 Residential-scale arrays of 15kW or less are acceptable in almost any location in town.
2 Commercial and community arrays up to 150 kW are also acceptable in most locations.
3 Large-scale solar arrays (up to 500 kW) are encouraged to be sited in “preferred” locations,
4 where scenic preservation, natural character, or village character are not limiting issues.
5 Subject to meeting location-dependent criteria, East Montpelier will accept solar arrays of up to
6 500 kW in capacity. Any proposal to install an array of large capacity must receive approval of a
7 majority of the Selectboard, or a 5-person committee (minimum) appointed by the Selectboard,
8 as a condition to file a Certificate of Public Good.
9 The town should engage WEC, GMP and the Vermont Electric Power Company (VELCO) when
10 a large project comes up for approval, to ensure that the reliability of the local grid is being
11 assessed adequately.

12 Preferred Siting

13 Preferred sites for larger solar photovoltaic arrays (150 kW or larger) are located within the
14 current Industrial District and Commercial District (excluding defined villages). These areas are
15 generally on or near state highways, and near 3-phase transmission lines. Appropriate screening
16 from roadsides and residential areas is required for all solar projects.

17 Several portions of East Montpelier are currently zoned for commercial and/or industrial usage
18 and are suitable for larger solar projects. These areas are located in the southeast quadrant of the
19 town. Because of the potential for commercial energy load in this area and the pre-existing of
20 light industrial development in this area, these areas are preferred for larger-scale solar
21 development. Note that zoning districts may change.

22 Preferred sites include:

- 23 • Rooftops of municipal buildings, such as U-32 Middle/High School and East Montpelier
24 Elementary School.
- 25 • Above parking lots and impervious ground surfaces.
- 26 • Adjacent to existing light industrial and commercial sites that are comparable in scale to
27 the proposed array.
- 28 • Adjacent to existing large farm buildings comparable in scale to the proposed array.
- 29 • Casella Waste Management Capped Landfill: The available land area is unknown, and
30 will determine the potential project size.
- 31 • Industrial District (532 acres total): East Montpelier’s industrial district is designed to
32 accommodate industrial and business uses unsuited to residential areas, and is therefore
33 economically important to the town. No solar development shall be located on portions
34 of the industrial district that is within the East Montpelier Village as defined in the *East*
35 *Montpelier Village Master Plan*.
- 36 • Commercial District (600 acres total): The commercial district extends from East
37 Montpelier Village along US 2 to the Plainfield town line. Portions of this district may
38 be suited to solar development. These include areas immediately adjacent to existing
39 commercial uses. Areas that are not suitable include actively used farmland, lands within

East Montpelier Village, flood hazard areas, river corridor areas, or wooded slopes >10%. Screening from roadsides and nearby residential areas is particularly important as this area serves as the eastern gateway into East Montpelier's primary village.

- Portions of the Residential and Commercial District: Generally areas in close proximity to Route 2 and to 3-phase transmission lines are preferred. Excluded areas include East Montpelier Village and the conserved Clark property. This is an area with a mix of residential uses, and screening from residential and roadside views will be important.

Areas of Possible Constraints (Possible Siting)

Renewable energy generation projects that are not located within "preferred sites" will need to be designed and sited so that the scale and location does not unduly detract from the character of the area or natural resource values. Owners of conserved land must seek approval from the Vermont Land Trust or other organization that conserved the land.

More specific siting and design standards are described in the Draft East Montpelier Energy Plan.

Larger non-commercial projects up to 150 kW serving the specific needs of local businesses or farms may be permitted provided they are designed and sited to fit within the character of the surrounding area. The following types of renewable energy projects will be appropriate in these areas:

- Roof mounted solar panels;
- Free standing solar panels up to 15 kW for single residences or up to 150 kW serving a nearby community of homes;
- Non-commercial solar projects up to 150 kW designed to serve the specific needs of a local business, institution, or farm;
- Small wind turbines suited to specific residential or business use.

The 100 kW solar project at the McKnight Farm serves as a good example of appropriate siting. The project is located on non-productive land and is well screened from the adjacent road by a hedgerow.

Areas of Significant Constraints (Prohibited Areas)

Areas with important natural, cultural, or scenic values are unsuited to solar projects except where it can be demonstrated that development will not interfere with the identified resource. These restrictions are not intended to prevent the installation of arrays to offset residential or farm use of inhabitants within the designated prohibited area, but sensitive siting and screening may be required.



McKnight Farm 100kw solar array, screened from Kelton Road
(Jean Vissering)

Significant Natural Resources: These areas are identified in the Town Plan and include flood hazard areas, river corridor areas, wetlands, high elevation protection zones, wildlife habitat areas, significant forest blocks, and prime agricultural soils. Minimum buffer areas of 50 feet are required between any part of a solar project and these resource areas

Identified Scenic Views: Roadside areas with significant scenic views are identified in the Town Plan and shown on Map 12. No solar project shall be visible within the foreground (1/2 mile) of any viewing area.

Significant Cultural Resources: No projects greater than 50kW shall be located within a Village zone. These areas are intended for residential and business growth to provide a sense of community, economic growth, and opportunities for affordable housing.

Goals and Actions

➤ **Goal 6.12:** Adopt the East Montpelier Energy Plan.

✓ **Action 6.12.1:** Complete the East Montpelier Energy Plan and incorporate it into the 2018 Town Plan by amendment.

➤ **Goal 6.13:** Promote energy conservation and efficiency.

✓ **Action 6.13.1:** Publicize home weatherization and other energy conservation programs to East Montpelier residents.

➤ **Goal 6.14:** Reduce use of fossil fuels in transportation.

✓ **Action 6.14.1:** Develop a plan for reducing the use of fossil fuels in town vehicles.

✓ **Action 6.14.2:** Encourage schools to reduce single-student transportation.

This goal cuts across other areas. See actions for Infrastructure (6.2.1, 6.2.2, 6.2.3, 6.5.1, 6.5.2, 6.6.1).

➤ **Goal 6.15:** Focus growth in villages and growth areas.

This goal cuts across other areas. See actions for Land Use (10.2.1, 10.2.2, 10.2.3).

➤ **Goal 6.16:** Create guidelines for siting and design of new renewable energy development.

✓ **Action 6.16.1:** Provide specific siting and design standards in the East Montpelier Energy Plan.

Chapter 7

ECONOMIC DEVELOPMENT

Current Status

East Montpelier's economic structure remains much the same as it has for almost a century, with agriculture as the commercial backbone. The town's two largest farms are Fairmont Farms, a conventional dairy operation, and McKnight farm, one of the largest organic dairy farms in the state. A few smaller farms raise beef cattle and sheep.

Other business activity is concentrated in East Montpelier Village with a few businesses scattered along US 2 and within the industrial zone along US 2 and VT 14. The Morse Farm and Bragg Farms produce maple products and continue to attract tourists, and some enterprising individuals operate a diverse range of businesses out of their homes.

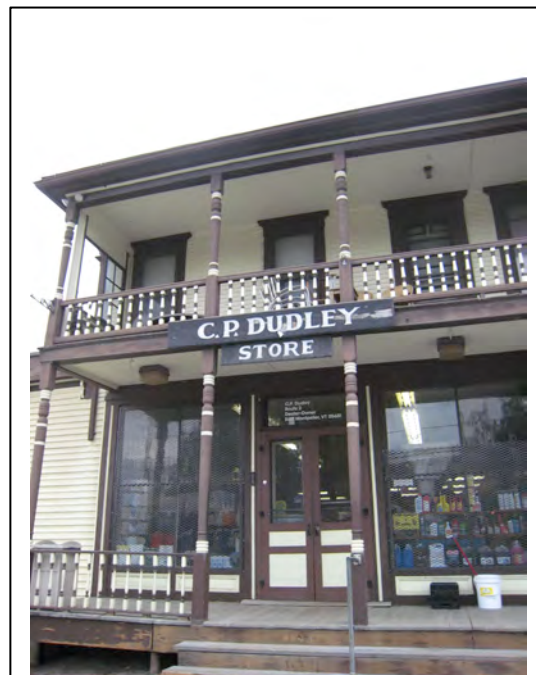
The interest in local food continues to blossom with increasing numbers of small agricultural enterprises specializing in a variety of products including meats, vegetables, berries, cheeses, and plants. Maple syrup is as vital as ever, with many large and small producers. Both the Bragg Farm and Morse Farm have expanded and diversified. The Morse Farm operates a ski touring center in winter and bike races and other events in summer.

Businesses operating out of homes include many highly skilled carpenters and builders (now often focusing on energy efficient homes), day care providers, foresters and loggers, and professionals offering a range of consulting services.

Businesses located in East Montpelier Village include Dudley's Store, Washington Electric Coop, the East Montpelier Home Center, 802 Coffee's roasting facility, Pink Shutter Flower Shop, Buy Right Auto, the North Country Federal Credit Union, North Star Fireworks, rb Technologies, Shaline Bridal, ALCO Energy Products, Mekkelsen RV, and other smaller businesses.

The industrial zone lies between VT 14 and US 2 and includes Casella Waste Management, Black Rock Coal, the Central Vermont Humane Society, Demers Auto Body, Vermont Country Campers, Anderson Equipment, Packard Fuels, Huntington Homes, and Pine State Trading Co.

A number of businesses are located along US 2 and VT 14 outside the village and industrial park. These include Delair's Carpet Barn, Gilles Sales and



Dudley's Store in East Montpelier Village (Julie

Service, KC's Performance Auto Care, Winterwood Timber Frames, Plainfield Hardware, Central Vermont Storage, Laquerre's Marine, and East Montpelier Storage.

Some challenges remain. High speed Internet, vital for businesses today, is not available in some sections of town, and an aging and insufficient public potable water system and municipal wastewater treatment systems impede business and residential development in East Montpelier Village.

Employment and Wages

East Montpelier provides 2.2% of jobs in the central Vermont region, according to the Vermont Department of Labor. The town had 72 employers as of 2016, an increase of 9.1% since 2010. Sixty-eight private sector employers provide 550 jobs. 74% of these private-sector jobs are in the service sector; agricultural employment accounts for 33 jobs. Four private sector employers provide 196 jobs, the majority of which are in education.

Town residents work in a variety of occupations and industries.

Occupation	Number	Percent
Civilian employed population 16 years and over	1,414	100%
Management, business, science, and arts occupations	754	53.3%
Service occupations	137	9.7%
Sales and office occupations	308	21.8%
Natural resources, construction, and maintenance occupations	96	6.8%
Production, transportation, and material moving occupations	119	8.4%
Source: 2011-2015 American Community Survey 5-Year Estimates		

Industry	Number	Percent
Civilian employed population 16 years and over	1,414	100%
Agriculture, forestry, fishing and hunting, and mining	33	2.3%
Construction	48	3.4%
Manufacturing	130	9.2%
Wholesale trade	46	3.3%
Retail trade	131	9.3%
Transportation and warehousing, and utilities	34	2.4%
Information	19	1.3%
Finance and insurance, and real estate, rental and leasing	44	3.1%
Professional, scientific, and management, administrative, and waste management services	196	13.9%
Educational services, and health care and social assistance	445	31.5%
Arts, entertainment, recreation, accommodation and food services	60	4.2%
Other services, except public administration	91	6.4%
Public administration	137	9.7%
Source: 2011-2015 American Community Survey 5-Year Estimates		

The average wage in 2016 was \$41,289, up 13.2% from 2010. Average private sector wages were \$39,094, while public sector wages averaged \$47,441. The mean travel time to work for East Montpelier residents was 21 minutes.

East Montpelier has a very low rate of unemployment, even lower than the region and the state. Based on the table below, it would appear that most residents who want to find a job are able to do so.

Local and Regional Unemployment Rates, 2016				
	Total Civilian Labor Force	Employment	Unemployment	Unemployment Rate
East Montpelier	1,610	1,580	40	2.3%
Barre-Montpelier Labor Market Area	25,600	24,750	800	3.2%
Washington County	34,000	32,900	1,100	3.2%
Vermont	344,900	333,650	11,250	3.3%
Source: Vermont Department of Labor, Economic & Labor Market Information. Labor Force and Unemployment Rate Data Tool. 2016 Annual Average, Not Seasonally Adjusted				

Future Economic Development Potential

East Montpelier's location close to Montpelier and Barre, as well as good access to US 2 and VT 14, places it in an excellent position for attracting business. The recently developed *East Montpelier Village Master Plan* encourages business and residential growth within a newly defined village district. The village master plan proposes to adopt new zoning that will encourage mixed residential and business growth at increased densities.

The village master plan makes it a high priority to ensure that the water supply system in the village is sufficient to serve current and future customers, and to pursue opportunities to provide wastewater infrastructure. These infrastructure needs are particularly significant for businesses such as restaurants and cafés, and will be among the greatest challenges for future growth. (See additional discussion under Land Use.)

The recent town acquisition of the Old LaPerle Farm property offers opportunities to provide both affordable housing and new businesses on land that will be able to support a wastewater system of reasonable size. Other larger property owners in the village have similar potential to include community water and/or wastewater systems. These parcels could potentially serve other nearby properties and businesses that want to expand. These larger properties also have the potential for compact, residential and/or mixed-use, village-scale development. New residential growth helps provide a market for businesses offering services to the community.

Sidewalks have recently been put in place enhancing the "village" feel of the East Montpelier Village and adding to the safety of pedestrians who use the village. Bike lanes and additional sidewalks are planned to be constructed in 2018 and will further enhance the historic Lower Village. A new Park and Ride facility was completed in 2017.

Both North Montpelier and the Gallison Hill area are identified as potential growth areas. Residents of North Montpelier would like to encourage appropriately scaled local businesses. The Riverbend Store and Post Office closed in 2012, and no other local businesses currently exist. Gallison Hill also has potential as a growth center, but may be more focused on residential than business development.

The East Montpelier *Land Use and Development Regulations* permit commercial business uses along much of US 2 and VT 14. Although these regulations discourage strip development, the

continued build out of businesses along these routes has the potential of creating strip development. This type of growth is often inefficiently organized, detracts from the village as the economic focal point, creates access management problems, and has a negative visual impact along the approaches to the village. However, certain types of growth may be more appropriate within these areas, but need greater regulatory guidance to ensure businesses and other uses within these areas are organized efficiently with shared access road or drives, and that they are designed to be compatible with traditional rural settlement patterns.

The town's industrial zone also has potential for future growth, especially for businesses that are unsuited for village and residential areas. This area is generally well separated from more rural and residential areas and should remain so.

Goals and Actions

➤ **Goal 7.1:** Concentrate commercial growth in East Montpelier Village, with an emphasis on village-scale businesses that support the community and are compatible with residential uses.

✓ **Action 7.1.1:** Encourage business retention and expansion, and the location of new village-scaled businesses, in village mixed use areas.

✓ **Action 7.1.2:** Maintain Village Center designation for the historic village core and promote the associated benefits.

✓ **Action 7.2.3:** Evaluate the level of interest in, and benefits of, forming a non-profit entity to acquire and redevelop properties in the village as a way to preserve historic properties and spur economic development.

This goal cuts across other areas. See actions for Infrastructure (9.9.2) and Land Use (10.2.1).

➤ **Goal 7.2:** Encourage small, community-focused commercial enterprises in North Montpelier.

✓ **Action 7.2.1:** Pursue funding and business assistance programs that support economic development in North Montpelier, including business recruitment, infrastructure needs and aesthetic enhancement.

➤ **Goal 7.3:** Ensure zoning bylaws allow commercial and industrial business uses in appropriate locations.

✓ **Action 7.3.1:** Review and update the East Montpelier Land Use and Development Regulations to ensure that commercial and industrial areas are appropriate and adequate to encourage appropriate business growth.

This goal cuts across other areas. See actions for Land Use (10.3.1).

- **Goal 7.4:** Promote and support the viability of sustainable agricultural enterprises.
 - ✓ **Action 7.4.1:** Encourage local agricultural enterprises through non-regulatory techniques, such as hosting farmer's markets or fairs and providing information about local agricultural products.
 - ✓ **Action 7.4.2:** Ensure zoning bylaws support agricultural enterprises.
- **Goal 7.5:** Support home businesses while ensuring that rural residential character is preserved.
 - ✓ **Action 7.5.1:** Promote the continued upgrade and expansion of high-speed telecommunications throughout the town.



rb Technologies (Julie Potter)

Chapter 8

HOUSING

History

Until the middle of the twentieth century, the location and type of housing in East Montpelier was directly related to a family's means of livelihood. Those who worked the land lived in farmhouses; those employed in the village mills usually lived in rental housing, or, as in North Montpelier, in boarding houses owned by the mill operators. Others who were retired or operated small businesses owned houses in the village areas. Houses were large, often accommodating three generations, as well as farm hands.

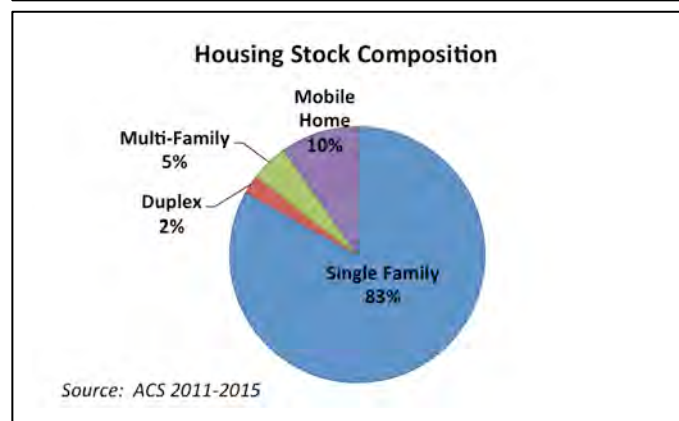
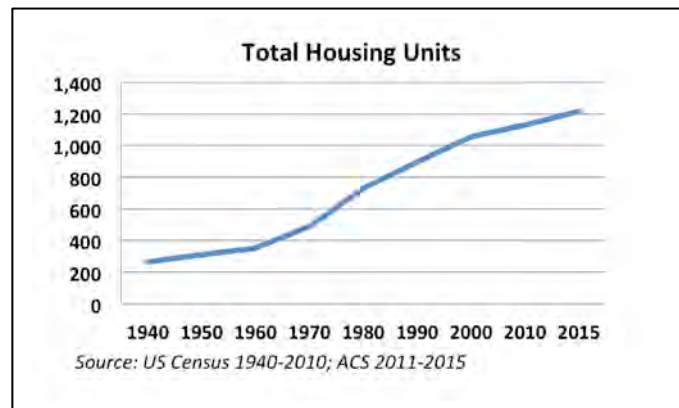
Current Status

East Montpelier today is home to people representing a variety of ages, occupations, and economic wealth. The town's scenic beauty, conserved open land, proximity to services and employment and excellent schools make the town a desirable place to live. Over the past few decades, the town has become a rural residential bedroom community.

Housing Stock

The number of homes in East Montpelier more than doubled between 1970 and 2000. Since then, the rate of new homes being built has slowed. In 2010 there were 1,129 housing units, increasing to an estimated 1,216 housing units in 2015.

Consistent with the town's rural residential character, single-family homes account for 83% of the housing stock; mobile homes are 10% of the total. Multi-family homes account for only 5% of the total.



The Sandy Pines Mobile Home Park has 56 units, accounting for approximately half of the mobile homes in East Montpelier. Sandy Pines residents own their home and pay a fee to rent the lot and pay for water and septic, as well as trash and snow removal.

Most homes are owner-occupied. Rental homes comprise 15% of the total.

The age of the town's housing stock reflects the pace of homebuilding over time. About 28% of the town's homes were built before 1940. Relatively few homes were built between 1940-1960. Homebuilding surged starting in 1970, with 17% of the town's homes built in the 1970s, 12% built in the 1980s and 14% built in the 1990s. Building slowed between 2000-2010, with 11% of homes built during this period. Homebuilding has been very slow after 2010, with the economy recovering slowly after the Great Recession.

With 74% of the town's housing stock built before 1990, there is plenty of opportunity for energy efficiency improvements, such as weatherization and more efficient heating systems.

Household Size

Although the number of households has steadily increased over time, the number of people in a household has generally declined; however, the estimated household size for 2015 shows a slight increase since 2010.

Year	Households	Household Size
1900	827	2.70
2000	1,007	2.56
2010	1,068	2.41
2015	1,216	2.44
<i>Source: US Census 1900-2010; ACS 2011-2015</i>		

Housing Costs and Affordability

East Montpelier's attractiveness as a place to live contributes higher housing costs relative to surrounding communities. Median home sales prices can fluctuate from year to year, depending on the number and type of homes sold. Nevertheless, homes in East Montpelier typically sell for a higher price than in neighboring towns or Washington County as a whole.

At town forums and in town surveys over the past 25 years, residents have repeatedly identified the lack of affordable housing as a significant problem. Housing is considered affordable if housing costs (including mortgage, taxes and insurance) consume no more than 30% of annual gross income. Using data and the mortgage affordability calculator from the Vermont Housing and Finance Agency, a household with the town median income of \$66,324 (*Source: ACS 2011-2015*) could afford a house priced at \$224,500. For the same time period, the median owner-occupied home value in East Montpelier was \$240,000 (*Source: ACS 2011-2015*). This means that the median income household in town cannot afford a median priced home. Approximately 40% of all East Montpelier homes with land, regardless of lot size, are assessed at or below this affordability threshold (*Source: CVRPC analysis of 2016 Grand List data*).

By definition, half of the town's households have incomes less than the median value. Frequently these are young adults, working families and seniors for whom finding affordable housing is a challenge. Federal housing programs typically focus on households making up to 80% of the median income. In East Montpelier, households at 80% of town median income (i.e., \$53,059, *Source: ACS 2011-2015*) can afford a house costing up to \$179,500. This is much less than the median value house in town. The 2015 median price of a mobile home with land was \$145,000 (*Source: housingdata.org, from VT Dept. of Taxes*). Mobile homes, in Sandy Pines or

elsewhere in town, fall within the affordable range for the town. Approximately 25% of homes with land, regardless of lot size, are assessed at or below this threshold (*Source: CVRPC analysis of 2016 Grand List data*). This percentage is relatively unchanged since 2010.

Because East Montpelier's property values are high, with building lots costing \$50,000 and up, it is difficult to build affordable single-family housing. East Montpelier does not have critical infrastructure, such as municipal water and wastewater treatment, that is typically necessary in order to achieve the density that makes affordable housing development viable. Market forces alone are unlikely to be sufficient to develop affordable housing units under existing conditions.

Senior Housing

In 2004, the East Montpelier Senior Living Initiative (EMSLI) formed to promote the preservation and creation of safe and affordable housing opportunities for senior citizens within our town. Community input yielded ideas ranging from creating senior apartments to developing intergenerational co-housing to providing services to help seniors stay in their own homes. In 2007, EMSLI received grants from The Vermont Community Foundation and a Municipal Planning Grant from the state Department of Housing and Community Affairs to study the need and feasibility for dedicated senior housing in town. The market analysis supported the development of at least 21 affordable units, with additional market-rate units also feasible. The most likely location for such a facility would lie in or near East Montpelier Village. The group has explored several possible sites, but has been challenged by timely financing for site acquisition. Currently EMSLI is working with the Old LaPerle Farm Property Committee to explore whether the town's acquisition of this 48-acre parcel in East Montpelier Village offers a viable siting opportunity for developing senior housing, possibly in conjunction with mixed-income housing.

Home Share Now coordinates home share programs in Central Vermont. Home Share Now matches people with a room to share with those wanting affordable housing. This program can be especially beneficial for seniors who want to stay in their home but may need some assistance and/or rental income. The program is also beneficial for persons seeking affordable housing. Home Share Now assists with screening, matching and conflict resolution to help ensure that the arrangement is compatible and mutually beneficial. Two of Home Share Now's "success stories" are in East Montpelier.

Regional Housing Distribution Plan

In 2006, the Central Vermont Regional Planning Commission formed a Housing Committee to discuss a pro-active approach to planning for housing in Central Vermont. The result of the Committee's work was a Regional Housing Distribution Plan for housing growth between 2000 and 2020. Municipal plans are required to address such regional housing plans.

The Regional Housing Distribution Plan asks municipalities to plan for the estimated housing need from between 2000 and 2020. Municipalities are required to demonstrate the community's intent to meet the proposed housing unit numbers laid out in the Housing Distribution Plan, or to describe in detail the obstacles that make attainment impossible. In addition to allocating new housing, based on municipal share of regional housing needs, municipal plans are required to provide a detailed map showing the town's preferred locations for 80% of the identified housing

needs as well as mapping updates that identify the locations and number of housing units created since the previous town plan adoption. Map 8 shows the distribution of housing in town, the number and location of homes built since 2013, and the preferred areas for future residential growth (East Montpelier Village, North Montpelier, and Gallison Hill).

According to the Regional Plan: “The Regional Housing Distribution Plan is not proposing quotas that municipalities must achieve within the time frame of their next municipal plan update; rather it is to identify the locations where the Region welcomes and encourages the housing residents need.”

The Regional Housing Distribution Plan relies on the “Economic and Demographic Forecast: Central Vermont Planning Region 2000-2020” study prepared in 2001 by Economic and Policy Resources, Inc. (EPR). The Regional Housing Distribution Plan uses the historical patterns and trends from this study to project housing needs into the future. Future housing needs are allocated to towns based on their percentage share of the region’s housing units in 2000.

Regional Housing Distribution Plan					
Number of net, year-round housing units to be planned for					
	2000-2004	2005-2009	2010-2014	2015-2020	Total
East Montpelier	74	94	87	206	461
Central Vermont Region	1,430	2,035	2,126	3,244	8,835

East Montpelier should have developed 255 new units by between 2000 and 2015, but actually grew 161 units (63%). By comparison, the Central Vermont Region should have developed 5,591 new units, but actually grew 2,600 units (47%). While East Montpelier has not met its allocation goals, it has done better than the region.

The Regional Housing Distribution Plan acknowledges that populations, economic conditions and housing markets are dynamic, and recommended that the plan be updated every five years. The housing plan has not been updated since it was developed. Since the plan was prepared, the Great Recession resulted significant economic and housing market downturns that have taken years to recover. The forecasts underlying the Regional Housing Distribution Plan are based on pre-recession trends that are no longer accurate.

East Montpelier faces several challenges in meeting the housing allocation goals. Approximately 50% of the town’s land area is conserved and/or in current use. Both reduce the amount of land available for development. The town also has long had large-lot zoning regulations to encourage the continuation of the farming community. Although East Montpelier is a desirable place to live, high land costs, reduced land availability, and the lack of municipal water and wastewater infrastructure hinder the development of new homes.

Nevertheless, East Montpelier recognizes the need for more housing options, including housing that is more affordable. Various actions have been taken to promote this goal:

- ✓ Town zoning allows mobile homes anywhere single-family homes are permitted.
- ✓ Accessory dwellings are allowed in all zoning districts.
- ✓ Planned residential developments are allowed in all zoning districts except Zone B - Industrial. Planned residential developments may receive a 25% density bonus, and a 50% density bonus if at least 20% of the units are affordable.

- ✓ The town has supported a new Habitat for Humanity home currently under construction, and has been in discussions with Habitat for Humanity for a multi-family home in East Montpelier Village.
- ✓ The town has also been exploring ways to use proceeds from a revolving loan fund, created to assist with infrastructure upgrades to the Sandy Pines Mobile Home Park, to assist with making housing in East Montpelier more affordable.
- ✓ In 2015, the town purchased the 48-acre Old LaPerle Farm property in East Montpelier Village. This property is being evaluated for a mixed-income development that would include senior housing.
- ✓ In 2017, the town developed a Master Plan for East Montpelier Village. This plan proposes new village zoning with smaller lot sizes and greater opportunities for new single-family and multi-family housing.
- ✓ A new, passive-energy affordable home on US 2, built by Habitat for Humanity, was completed in 2017. The town has been in discussions with Habitat for Humanity to possibly develop additional affordable housing in East Montpelier Village.

A buildout analysis for the Village Master Plan indicates that there is the potential for 169 new residential parcels in East Montpelier Village; this is over 80% of the remaining new housing goal under the Regional Housing Distribution Plan. The balance (20%) could be accommodated elsewhere in the town. East Montpelier believes that it will eventually meet the Housing Distribution Plan's goal, but based on current market forces it is unrealistic to believe that the goal will be met by 2020. The Housing Map shows the location of housing in town, including new housing units developed since 2013, and the East Montpelier Village area preferred for 80% of new housing units.

Goals and Actions

- **Goal 8.1:** Provide a range of housing opportunities, including single-family, multi-family, mixed use, affordable senior housing.
 - ✓ **Action 8.1.1:** Partner with other organizations to create affordable and senior housing near transportation and services.
 - ✓ **Action 8.1.2:** Evaluate expanding the Conservation Fund to include affordable housing.
 - ✓ **Action 8.1.3:** Promote and support home share programs as a way to support senior and affordable housing.
 - ✓ **Action 8.1.4:** Consider conducting a housing needs assessment and developing a housing action plan for the town.
 - **Goal 8.2:** Concentrate new residential development in East Montpelier Village or an identified growth area.
- This goal cuts across other areas. See action for Land Use (10.2.1).

Chapter 9

NATURAL AND SCENIC RESOURCES

A. AIR QUALITY

Everybody breathes, so the quality of our air is important. The U.S. Environmental Protection Agency sets health-related standards for a variety of air pollutants. The Vermont Department of Environmental Conservation monitors air quality at several locations, and all of the monitored areas currently meet the federal air quality standards. No air quality monitoring stations are located in Central Vermont, so there are no data on local air quality.

Locally, air quality concerns are limited mainly to emissions from motor vehicles, heating systems, and some agricultural practices. Emissions of air pollutants are closely related to energy use. We can help reduce air pollution by using renewable energy, increasing energy efficiency and conserving energy. These topics are discussed more fully in the Energy section of this plan. Forests can help remove some air pollutants, so maintaining forested landscapes can also help preserve air quality.

Goals and Actions

➤ **Goal 9.1:** Promote local actions to maintain air quality.

This goal cuts across many other areas. See actions for:

- Infrastructure (6.2.1, 6.2.2, 6.2.3, 6.3.1, 6.5.1, 6.5.2, 6.6.1, 6.13.1, 6.14.1, 6.14.2);
- Economic Development (7.1.1, 7.2.1);
- Natural and Scenic Resources (9.5.1); and
- Land Use (10.2.1, 10.2.2, 10.2.3).

B. WETLANDS AND WATERWAYS

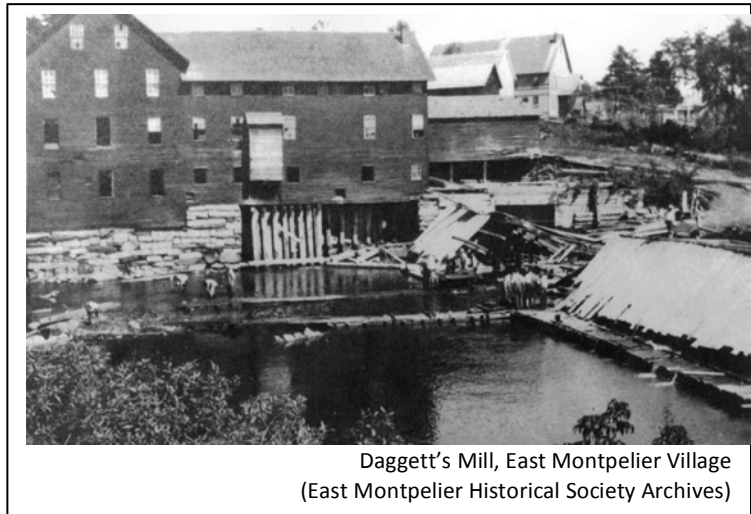
History

With the arrival of the first European immigrants into the East Montpelier area some two hundred years ago, a natural environment that had remained relatively stable for centuries began to undergo rapid change. Early settlers to this area found bear, deer, moose, and other wildlife in

1 plentiful supply. The free-flowing Winooski River was a popular fishing area, and for a few
2 years in the 1860s, served as an abundant source of pearl-bearing freshwater clams. By the late
3 1800s, however, clearing of land and unregulated hunting and trapping had begun in earnest and
4 profoundly influenced the area's natural resources and wildlife population.

5 The Winooski River and its tributary, the Kingsbury Branch, both served important roles in the
6 early settlement of East Montpelier. Historical evidence indicates the existence of several
7 Native American settlements along these rivers. The native Abenaki people frequently used the
8 Winooski as a major route to eastern points. For the European settlers, the rivers and multiple
9 streams in our area served as sources of power, food, and recreation. By the beginning of the
10 twentieth century, many sawmills were operating along both rivers.

11 The use of waterways in town and in
12 the Central Vermont area for early
13 industrial purposes also led to abuse
14 and pollution. Wetlands were
15 considered a nuisance to be avoided
16 if possible or, in cases where
17 avoidance was not possible or
18 desirable, to be filled or drained.
19 With the abundance of available land
20 and with the limited potential of
21 wetlands for agricultural
22 productivity, wetlands were largely
23 ignored until the recent escalation in
24 the value of land.



25 Reforestation, the consolidation of farms, and decreased human population during the first half
26 of the twentieth century allowed some of the natural habitat and animal species to reappear in the
27 East Montpelier area. More recently, population growth within the town and the Central
28 Vermont region has once again brought major changes to these water and wildlife resources.

29 **Current Status**

30 Our wetlands and waterways have many uses and functions. Wetlands support exceptional
31 diversity of plants and animals, and play a critical role in flood resiliency and improving water
32 quality by slowing fast moving water and filtering pollutants. Ponds and waterways provide
33 opportunities for swimming, canoeing, kayaking, fishing, bird watching, and are important
34 scenic resources.

35 Two private hydroelectric projects are located within East Montpelier. One is in North
36 Montpelier (located on the Kingsbury Branch), and one is located on the Winooski River
37 between US 2 and Gallison Hill Road.

38 Map 4 shows the network of rivers, streams and ponds in East Montpelier, as well as numerous,
39 mostly small, wetlands.

1 Major Waterways and Wetlands

2 The Winooski River is the major waterway running north to south in the eastern side of town.
 3 The Kingsbury Branch, Sodom Pond Brook, and Bennett Brook (also known as Mallory Brook)
 4 flow into the Winooski River, along with other smaller streams. On the western side of town,
 5 Long Meadow Brook flows out of Horn of the Moon Pond, down to Wrightsville Reservoir and
 6 into the North Branch of the Winooski.

Major Rivers and Streams			
	Name	Drainage Area	Drainage Area Measurement Location
**	Winooski River	160 square miles	Near the mouth of the Kingsbury Branch
**	Kingsbury Branch	53 square miles	At its mouth
**	North Branch	67 square miles	At the outlet of Wrightsville Reservoir
*	Bennett Brook (Mallory Brook)	5 square miles	At its mouth
*	Sodom Pond Brook	11 square miles	At its mouth
** Partially in town; * Completely in town			

7

Major Lakes and Ponds				
	Name	Size	Elevation above sea level	Drainage Area
**	Wrightsville Reservoir	90 acres	629 feet	67 square miles
**	North Montpelier Pond	72 acres	703 feet	51 square miles
*	Sodom Pond	21 acres	1,058 feet	3 square miles
*	Horn of the Moon Pond	10 acres	1,230 feet	<1 square mile
*	Nelson Pond	10 acres	1,210 feet	<1 square mile
*	Chapell Pond	2 acres	1,170 feet	<1 square mile
*	Coburn Pond	6 acres	n/a	<1 square mile
** Partially in town; * Completely in town				

8
 9 Wetlands are defined as “those areas of the state that are inundated by surface or groundwater
 10 with a frequency sufficient to support vegetation or aquatic life that depend on saturated or
 11 seasonally saturated soil conditions for growth and reproduction.”

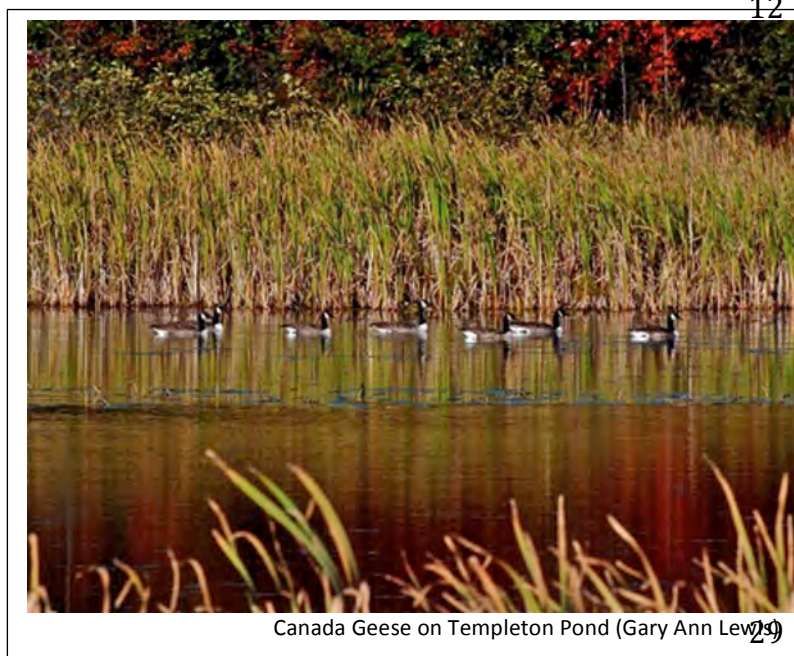
12 Several large wetland complexes exist in town, but numerous small wetlands are also valuable.
 13 There are 146 mapped wetlands in town regulated by the Vermont Wetlands Act. They range in
 14 size from 0.12 acres to 199 acres and occupy a total of 857 acres. An official wetlands map is
 15 available from the State Department of Environmental Conservation
 16 (<http://dec.vermont.gov/watershed/wetlands>), and a copy is in the Town Office.

17 All wetlands shown on the Wetlands Inventory Map are presumed to be significant unless
 18 determined to be otherwise by the Department of Environmental Conservation (DEC). The
 19 Vermont Wetland Rules identify and protect 10 functions and values of significant wetlands and
 20 establishes a 3-tier wetland classification system to identify such wetlands. The first two classes
 21 of wetlands (Class I and Class II) are considered significant and protected under the wetland
 22 rules along with their buffer zones (generally 100-foot for Class I and 50-foot for Class II).
 23 Chickering Bog (Fen), a Class I wetland is primarily located in Calais, but a portion of the
 24 wetland or its buffer may be located in East Montpelier. Development is prohibited in protected
 25 wetlands, although wetland rules exempt certain areas that grow food or crops in connection with
 26 farming activities.

27

1 Water Quality

2 The water quality of lake and pond water resources are rated by the Vermont Department of
 3 Environmental Conservation (DEC) Lake Score Card ([http://dec.vermont.gov/watershed/lakes-](http://dec.vermont.gov/watershed/lakes-ponds/data-maps/scorecard)
 4 [ponds/data-maps/scorecard](http://dec.vermont.gov/watershed/lakes-ponds/data-maps/scorecard)) as “poor” to “good” based on four criteria: nutrient trends, shore
 5 and lake habitat, mercury pollution, and invasive species. Elevated levels of mercury in fish
 6 tissue are a water quality concern in all Vermont waterways. North Montpelier Pond has, since
 7 the early 1980s, been infested by Eurasian water milfoil, a nuisance non-native aquatic plant,
 8 resulting in the only “poor” rating. While their presence has been documented in nearby waters,
 9 zebra mussels and didymo (two other non-native nuisance aquatic species) have not been
 10 discovered in any waterway in town. Preventing the spread of non-native species will require the
 11 continued vigilance by residents and all who enjoy using these water resources.



Canada Geese on Templeton Pond (Gary Ann Lewis)

12 Vermont has state water quality
 standards. Water bodies that do
 not meet one or more criteria in
 the standards are considered
 impaired. East Montpelier does
 not have any impaired surface
 waters. The state classifies
 surface waters as either Class A
 or Class B. Class A waters are
 suitable for public drinking
 water supplies and include all
 waters in pristine natural
 condition and all waters above
 2,500 feet in elevation. Class B
 waters are all other surface
 waters and are managed towards
 the objective of maintaining
 high quality, suitable for
 recreation, high quality habitat,

31 and drinking water supplies after appropriate filtration and disinfection. Class B waters may also
 32 include waste management zones which allow for the discharge of treated sewage. There are no
 33 waters in East Montpelier classified as Class A. All surface waters in East Montpelier are
 34 designated and managed by the state as a “cold water fishery.”

35 East Montpelier is located in the Winooski River basin. All surface waters in town drain into the
 36 Winooski River, and ultimately into Lake Champlain. Lake Champlain is impaired, with levels
 37 of phosphorus that do not meet water quality standards. Vermont has developed a plan to clean
 38 up Lake Champlain by reducing the levels of phosphorus entering the lake. This plan is known
 39 as the Total Maximum Daily Loading (TMDL). The phosphorus comes from agricultural runoff,
 40 roadways, eroding stream banks and lawn fertilizers. Achieving the clean up plan requires that
 41 phosphorus levels be reduced from all sources throughout all the watersheds contributing to Lake
 42 Champlain. Clean water programs to meet the TMDL will affect East Montpelier. The town is
 43 required to obtain and comply with a Municipal Roads General Permit, to reduce pollutants from
 44 roadways. The town is currently participating in the Kingsbury Branch Watershed Stormwater

- 1 Master Plan, which will identify and develop preliminary designs for five priority stormwater
- 2 projects. This stormwater master plan will be completed in early 2019.



The Winooski River along Route 2 approaching East Montpelier Village (Jean Vissering)

3 Protecting Wetlands and Waterways

- 4 The continued richness and diversity of fish and wildlife within East Montpelier depends on the
- 5 sustained integrity and maintenance of the places where they eat, visit, live, and reproduce. An
- 6 important component of this system is the network of stream banks referred to as riparian
- 7 corridors. When recognized and respected, they can play a large role in protecting fish and
- 8 wildlife and in ensuring the connectivity of natural areas within the town.
- 9 All wetlands are protected by state statute. Municipally adopted Flood Hazard and River
- 10 Corridor regulations limit development within vulnerable areas along the Winooski River,
- 11 Kingsbury Branch and Bennett Brook. The town requires a minimum 50-foot buffer around all
- 12 streams and wetlands.
- 13 Forested riparian areas along rivers streams and wetlands still require protection. Several ponds
- 14 located within the town have only a “fair” rating for shore conditions, invasive species, mercury
- 15 levels and nutrient trends. Maintaining forested buffers can improve water quality.
- 16 There are various techniques for removing invasive Eurasian milfoil from ponds, including
- 17 manual removal and introducing natural predators. One potential way to help protect water
- 18 quality is the use of green infrastructure (GI) and low impact development (LID) techniques
- 19 during construction. Low Impact Development (LID) is development designed to minimize off

1 site impacts, especially run-off, sedimentation and pollutants. Techniques include using natural
2 systems and green infrastructure. Examples include using narrow unpaved driveways, rain
3 garden catchment areas to absorb any run-off from a site, retaining roadside vegetation, and
4 collecting runoff from hard surfaces like roofs into rain barrels. LID approaches should be
5 incorporated into the town's *Land Use and Development Regulations*.

6 Importantly, natural resource management efforts will continue to involve land in both public
7 and private ownership.

8 **Goals and Actions**

9 ➤ **Goal 9.2:** Protect wetlands and waterways as valued wildlife habitat, and recreational and
10 scenic focal points of the community.

11 ✓ **Action 9.2.1:** Consider use of the Conservation Fund for the purchase of important
12 public access to wetlands and waterways.

13 ➤ **Goal 9.3:** Ensure *Land Use and Development Regulations* promote water quality protection.

14 ✓ **Action 9.3.1:** Review and update *Land Use and Development Regulations* to adopt of
15 Low Impact Development (LID) techniques.

16 ➤ **Goal 9.4:** Support project development and implementation of projects that will improve
17 water quality.

18 ✓ **Action 9.4.1:** Manage highway operations and implement projects to comply with the
19 Municipal Roads General Permit.

20 ✓ **Action 9.4.2:** Implement roadside vegetation practices that reduce runoff and
21 sedimentation.

22 ✓ **Action 9.4.3:** Pursue funding for project development and implementation of priority
23 projects in the Kingsbury Branch Watershed Stormwater Master Plan.

C. FOREST RESOURCES AND INTEGRITY

History

East Montpelier's combination of forest and farmland has defined its landscape for over one hundred years. Forest resources contribute not only to the landscape, but also to the economy, wildlife habitat, air and water quality, recreational opportunities, and quality of life for residents and visitors alike. With increased development and the threats of global warming, the management and conservation of our forests and other natural resources have become more important.

In 1962, the town purchased about 100 acres of land off Haggett Road, in the northern section of town, as a Town Forest. The Town Forest Committee developed a forest management plan for the property and has conducted several timber sales over the years. The most recent timber sale was in 1998 and resulted in nearly \$48,000 in revenues for the town.

According to local legend, Janet Macleod and her dog created the first trails in the Town Forest. After that Leon Harris, a neighboring property owner, began to clear and maintain trails, and continues to do so today. East Montpelier Trails Inc. maintains a through trail that connects from the Town Forest entrance to Templeton Road.

Current Status

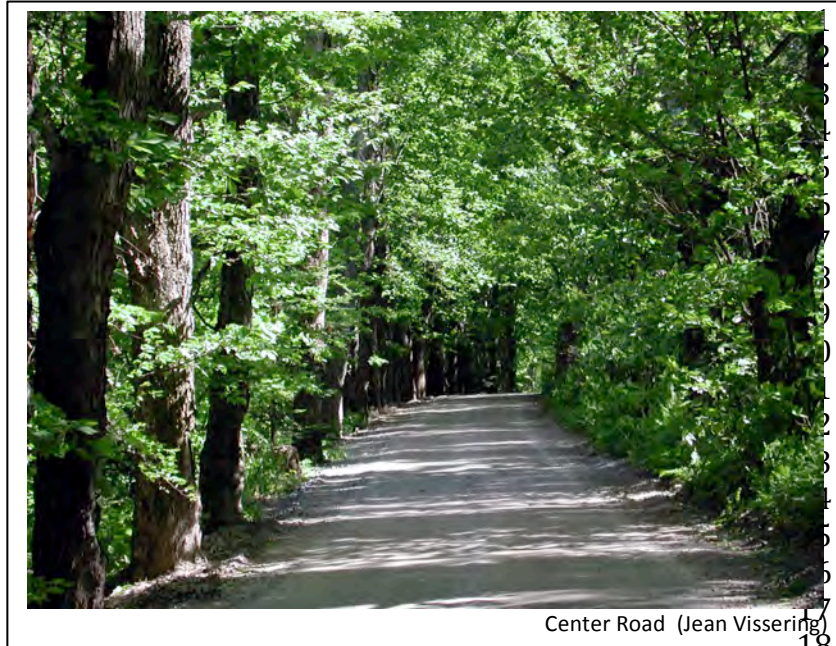
Approximately 58% (11,419 acres) of East Montpelier is forested (see Map 9). This is less than the 74% of Vermont that is forested, due in part to the abundance of open agricultural land in East Montpelier.

Publicly-owned forestland accounts for about 220 acres, or 1 percent of the total land area in town. This land includes the following:

- East Montpelier Town Forest (100 acres);
- Wrightsville Dam (38 acres state-owned);
- Baird property (45 acres);
- Town garage (26 acres behind garage); and
- Benton property (11 acres).

Private landowners own the remaining forest acreage. Some are actively managed; others are not. Because the future of the forest is largely in private hands, and because these landowners have a wide range of values and interests for their forestland, there are challenges and opportunities for managing and conserving forest resources in town.

As Map 9 shows, much of the town's forested land is either conserved or enrolled in the state's Current Use Value Program, which provides significant tax incentives for land owners who agree to keep woodland undeveloped and follow forest management plans.



Center Road (Jean Vissering)

In addition to East Montpelier's forests, approximately 59 miles of street and shade trees lie within the public right-of-way. These trees fall under the responsibility of the Town Tree Warden. Mature trees lining our roadways contribute to roadside scenery. These cultural treasures, as well as trees surrounding other public spaces such as the school, cemeteries, and town offices, need to be managed as community resources. They provide shade, reduce dust,

control soil erosion, and assist in traffic calming. The "Town Green", next to the Old Brick Church, will over time become a shady community gathering spot for local events. These amenities come with maintenance responsibilities.

East Montpelier is taking part in a Roadside Vegetation Assessment Project sponsored by the state Agency of Natural Resources Department of Forests, Parks and Recreation. The project will assist the town with developing strategies to improve and maintain roadside vegetation in order to help reduce runoff and erosion that contributes to stream sedimentation and pollution.

Forest Uses and Values

Harvesting of forest products is evident throughout town, both in terms of larger commercial operations and homeowner activities for domestic wood heat and other uses. Other than firewood use, most of the timber cut in East Montpelier is processed outside of town. At one time there were several commercial sawmills operating in town. Presently, Fontaine's Sawmill on VT 14 North is the only local sawmill, producing lumber primarily for local trade use. There are several small-scale wood-using manufacturing businesses in town, but perhaps the largest users of forest products are the elementary and secondary schools which are heated primarily with wood chips.

Numerous sugar bushes dot the landscape in town, as well as Christmas tree farms. These value-added forests provide additional income to forest landowners.

Forestland has many non-commodity values as well. Wildlife habitats, such as deeryards, and travel corridors are enhanced by a variety of forest types. Forests act as sponges, allowing precipitation to infiltrate into the ground, reducing flash flooding, and recharging our aquifers. Forest buffers along streams play a critical role in maintaining water quality by reducing soil erosion and flooding, and protecting riparian and aquatic communities. Finally, forests are highly valued for recreation and aesthetics. They greatly enhance outdoor activities such as walking, bicycling, horseback riding, snowmobiling, and hunting.

1 Protecting Forest Integrity

2 Our forests are exposed to a number of threats. Perhaps the single biggest threat is the
3 conversion of forests to other uses. Conversion may stem from parcelization (subdividing a
4 large parcel of land), changing landowner objectives, and development. Fragmentation of large
5 forest blocks impacts wildlife habitat and natural processes, the integrity of natural communities,
6 and the ability of foresters to effectively manage forest products. Property tax burdens are often
7 cited as a reason for forestland conversion; enrollment in the Current Use Value program
8 continues to be important for maintaining forest integrity.

9 The framework for protecting forest integrity focuses on protecting high-priority forest areas:

- 10 • Significant forest blocks;
- 11 • Interior forests;
- 12 • Habitat connectors;
- 13 • Physical landscape diversity;
14 and
- 15 • Significant habitats.

16 Large contiguous forest blocks that are
17 not broken up by roads or development
18 are particularly valuable ecologically,
19 and are referred to as significant forest
20 blocks. These high priority blocks,
21 identified by the state Agency of
22 Natural Resources, are shown on Map
23 11. Most of these forests are in the
24 northern part of town and connect with
25 similar contiguous forest blocks in
26 Middlesex and Calais.

FOREST INTEGRITY TERMS

- **Forest Block:** areas of contiguous forest and other natural habitats (wetlands, old meadows, etc.) that are unfragmented by roads, development, or agriculture. Forest blocks provide significant interior forest habitat, ecological connectivity, or physical landscape diversity.
- **Forest Fragmentation:** the division or conversion of a forest block by land development other than by a recreational trail or use exempt from regulation.
- **Habitat Connectors:** land or water, or both, that links patches of habitat within a landscape to allow for the movement, migration, and dispersal of animals and plants. They can be a forest block, riparian area, or a specific road crossing the wildlife repeatedly use. Examples include small habitat blocks that serve as stepping stones between core forest, riparian habitat along streams and rivers, strips of forest cover between developed areas, hedgerows or fencerows. May also be referred to as a wildlife corridor.

27 Longmeadow Hill and other higher elevation areas in the northwest corner of town have
28 forestland that are valued as interior forest and for habitat connectors. These are part of larger
29 forest areas unfragmented by roads, development and agriculture. As such, they provide habitat
30 for a wide range of species. The Longmeadow Hill area is also part of regionally connected
31 wildlife corridors suitable to animal species needing wide ranges. The larger corridors allow
32 wildlife to roam, as well as adapt to changes of forest cover due to climate change, as well as to
33 changes occurring in adjacent forested areas. Riparian connections are also important within
34 these forest blocks.

35 Additional high priority forest blocks are important for physical landscape diversity. East
36 Montpelier is underlain by calcium-rich bedrock associated with the Waits River Formation.
37 Calcareous bedrock is associated with high biological diversity and rare species. In addition,
38 some of the town's forested riparian areas are critical for river processes, aquatic biota, wildlife
39 movement, and biological diversity, as well as other ecological functions. The Winooski River,
40 Kingsbury Branch, Bennett Brook (also known as Mallory Brook), and Sodom Pond Brook are

important to wildlife connectivity, even though some of these areas have been fragmented with development.

Some areas are particularly important for wildlife and are referred to as significant habitats. Deer wintering areas, wetlands, and sites identified to have rare, threatened or endangered species are all considered significant habitats (see Map 12). They may overlap with significant forest blocks.

Most of the high priority areas important for forest integrity in East Montpelier are privately owned. As shown on Map 11, the majority of high priority forest areas are conserved or enrolled in the state's Current Use program. Efforts to protect forest integrity will require both regulatory approaches (e.g., *Land Use and Development Regulations*) and non-regulatory approaches (e.g., information on the value of forest integrity, conservation easements, etc.).

Significant Natural Communities

Some forest areas are important because of the collection of plants and wildlife that occur together, or because a rare, threatened or endangered species lives there. These habitats are also known as significant natural communities. The state has mapped many of these significant habitats (see Map 12).

There are no state designated natural areas in East Montpelier, however, the Agency of Natural Resources has identified four sites with rare or significant natural communities that should be recognized and protected. Another three sites, associated with Chickering Bog, are within 1,500 feet of the East Montpelier town boundary.

Deer wintering areas occur in many areas of town. These are areas of softwood trees, such as hemlock and pine trees, that provide an important refuge for deer and other animals during harsh winters.

Opportunities and Challenges for the Future

East Montpelier's Town Forest on Haggett Road has not had a timber sale in many years. It is due for thinning, and at some point some very large old pine trees may need to be removed. Wildlife habitat and recreational use will remain important values in its future management. The Baird parcel is unsuited to timber harvesting due to difficult access and terrain. However, it provides valuable wildlife habitat and diverse recreational opportunities including trails for snowmobiles, walking and bicycling that are well used.

Even though most of the forestland in East Montpelier is privately owned, it is important to recognize that forests transcend private and political boundaries. They are integral parts of an ecosystem that support a variety of social and economic, as well as ecological, values. Maintaining the integrity of forestland is essential. Water quantity and quality, wildlife habitats, and recreational opportunities all rely upon fully functioning forest systems.

Planning based on an ecosystem or landscape-scale approach, rather than a parcel-by-parcel approach, is critical to sustaining forest resources as part of the common wealth of the town, community, and region. East Montpelier has not inventoried large blocks of forestland beyond those identified by the Agency of Natural Resources. East Montpelier's *Land Use and*

Development Regulations should be updated to provide clear and specific guidance for siting development and associated infrastructure to protect forestland. Energy siting guidelines discourage most energy development in significant forested areas. All these approaches will be important.

Another concern is the increase in invasive, non-native plants. Japanese knotweed, European buckthorn, Japanese barberry, Japanese honeysuckle, hogweed, and wild chervil are just several of the multitudes of plants that are taking over native vegetation along our roadways, fields and forests. The town has worked to eradicate hogweed near the East Montpelier cemetery, and has held a workshop on removing and controlling wild chervil. Many citizens have actively worked to eradicate invasive species on and near their properties, but more education and town-wide efforts are needed.

While not yet in East Montpelier, the potential introduction of invasive pests, especially highly destructive pests such as emerald ash borer, Asian long-horned beetle and hemlock woolly adelgid would have devastating consequences to the forests in our town. A final threat, one with far reaching consequences, is impacts from global climate change. Healthy forests will be critical in helping to address and adapt to a changing climate.

Goals and Actions

➤ **Goal 9.5:** Ensure that existing forest areas are managed for long-term sustainability.

✓ **Action 9.5.1:** Work with landowners and conservation partners to conserve the town's most valued forestland.

✓ **Action 9.5.2:** Provide education on invasive species and promote annual efforts to eradicate invasive plants.

➤ **Goal 9.6:** Ensure that *Land Use and Development Regulations* promote forest integrity.

✓ **Action 9.6.1:** Review and update *Land Use and Development Regulations* to promote retention of significant forestlands.

➤ **Goal 9.7:** Manage town-owned forests for recreational, economic and wildlife values.

✓ **Action 9.7.1:** Update and implement the Town Forest Management Plan, addressing thinning, harvesting, access rights, recreation and wildlife habitat.

✓ **Action 9.7.2:** Install new signage at the Haggett Road entrance to the Town Forest.

✓ **Action 9.7.3:** Evaluate the health and integrity of woody vegetation in road rights-of-way and identify areas in need of improved management.

➤ **Goal 9.8:** Promote management of private forest lands for multiple uses and values.

✓ **Action 9.8.1:** Provide workshops on stewardship and management of small woodlots.

✓ **Action 9.8.2:** Encourage use of local forest resources in municipal construction and development.

D. WATER SUPPLIES AND AQUIFERS

History

Early settlers in East Montpelier found abundant supplies of water for residential consumption, good rainfall for agricultural pursuits, and rivers and streams to provide power for commercial enterprises. As the town developed, however, poor commercial practices and inadequate procedures for disposal of household waste threatened the quality of surface water and groundwater. In the past thirty years, the development of stricter sewage regulations has restored much of the lost water quality.

In 2008, in response to a proposed bottling plant in the western part of town, a citizen group formed to place a moratorium on large groundwater withdrawals. Since then the Planning Commission has developed regulations that provide careful review of permits for large groundwater withdrawals.

In 2010, the East Montpelier Fire District #1 was formed to explore the purchase of the Crystal Springs, a privately-owned water system which supplies drinking water for a large part of East Montpelier Village. (Fire Districts are special purpose governments that own and operate public water supply systems.). The Fire District was unsuccessful in acquiring Crystal Springs, and in November 2016 was dissolved by merger with the town.

Current Status

In this Town Plan, “groundwater” means water below the land surface, plus springs. “Spring” means a groundwater source where groundwater flows naturally to the surface of the earth. Withdraw or withdrawal means the intentional removal by any method or instrument of groundwater from a well, spring or combination of wells or springs.

The availability of a reasonable quantity of good quality water is essential to every resident. An average household requires about 70 gallons of water per day per person. Individual household water supplies in East Montpelier (mostly from deep drilled wells or springs) at the present time are quite adequate and, for the most part, of excellent quality. To ensure this excellent quality, residents need to be vigilant protecting and monitoring their water supplies. The State of Vermont recommends that, at minimum, all private water supplies be tested for bacteria and selected chemicals each May when the risk from contamination is most evident. Homeowners, business owners, farmers, and provisions in town ordinances should work together to prevent water supply contamination.

Public and Private Water Systems

Some residents of the town are served by public drinking water systems that are regulated by the Department of Environmental Conservation, Drinking Water and Groundwater Protection Division (DEC). A public water system is defined as a source of water that serves at least 25 or more people more than 60 days of the year. Public water systems can fall into three categories,

each with different regulations and water sampling schedules depending on the size or type of population served.

- **Transient Non-Community systems (TNCs)** are the least regulated and typically serve hotels, restaurants, convenience stores, or other locations that serve 25 or more different people more than 60 days of the year.
- **Non-Transient Non-Community Systems (NTNCs)** are schools, factories and office buildings; locations that serve 25 or more of the same people more than six months of the year.
- **Public Community Water Systems (PCWS)** have 15 or more residential connections and may be homeowners associations, apartment buildings, or communities.

The various types of public drinking water sources in East Montpelier are summarized in the table below.

WSID #	Name	System Type	Active (A) Or Inactive (I)
VT0001049	Twin Valley Senior Center	NP	I
VT0005264	Crystal Springs Water System	PCWS	A
VT0006670	East Montpelier Elementary School	NTNC	A
VT0008134	Green Valley Campground	NC	I
VT0020367	Huntington Homes	NTNC	A
VT0021185	Montpelier Springs	NP	I
VT0005643	North Montpelier Water System	NC	I
VT0020919	Orchard Valley School	NTNC	A
VT0005267	Sandy Pines Mobile Home Park	PCWS	A
NP= Non-Public PCWS= Public Community Water System NTNC= Non-Transient Non-Community NC = Transient Non-Community			

Each NTNC and PCWS has a Source Protection Area (SPA) delineated for each source that serves that water system. The SPA represents the area of land that contributes to that source of water. DEC currently regulates five active public water systems in East Montpelier. There are six additional systems that are considered by DEC as inactive and therefore are not regulated. Previously identified SPAs that are associated with inactive systems are subject to *Land Use and Development Regulations*. Additionally, a portion of the SPA for the Murray Hill water system in the City of Montpelier crosses the East Montpelier town boundary.

East Montpelier has no municipal water system. Much of East Montpelier Village is served by the privately-owned Crystal Springs Water System. Crystal Springs is an active public community water system with 115 connections serving 300 persons. (Boundaries of the water system service area are shown on Map 7.)

The existing capacity of the Crystal Springs Water System does not meet the peak demands of the system, which has been rated at over 74,000 gpd. Additionally, the existing capacity is inadequate to meet firefighting needs so the five existing hydrants in the village cannot be used. DEC has placed a moratorium on new connections to Crystal Springs due to lack of capacity.

In 2012, the former Fire District #1 hired Aldrich & Elliott to conduct an engineering feasibility study to identify current system deficiencies, associated costs to correct, and a fair price for acquisition of the project. The study determined that a purchase price of approximately \$200,000 would be reasonable for the Fire District to purchase, upgrade and subsequently operate the system at reasonable rates for the users. The system would require another \$100,000 in improvements, including a new well with a higher yield, a larger reservoir, and metering. A well-functioning drinking water system is critical for the future development of East Montpelier Village. The issue is discussed in more detail in the *East Montpelier Village Master Plan*.

Goals and Actions

- **Goal 9.9:** Ensure the availability of a sufficient and sustainable supply of clean water for residential, commercial and industrial uses.
 - ✓ **Action 9.9.1:** Evaluate where future public water supplies may be possible and appropriate to support development in villages and growth areas.
 - ✓ **Action 9.9.2:** Ensure that the water supply system for East Montpelier Village acquires sufficient capacity to serve current and future customers and meets firefighting needs.
- **Goal 9.10:** Safeguard the quality and quantity of the town's groundwater.
 - ✓ **Action 9.10.1:** Ensure that groundwater withdrawals do not harm the citizens, existing uses, water systems or ecosystems of East Montpelier.

E. EARTH RESOURCES

History

Historically, there have been relatively small sand and gravel quarries in East Montpelier. No commercial operations exist in town at the present time. A former gravel pit off Coburn Road (now state-owned) is used as a swimming hole. The town once owned and operated its own small gravel pit off VT 14 but the material extracted from the site is now considered low grade and unsuitable for town use. Now the town purchases the gravel it needs from outside sources. The town trucks the material to use as needed. The town purchases sand through competitive bidding. Sand use by the town varies from year to year but, on average, about 4,000 cubic yards of sand are used on an annual basis.

1 Current Status

2 The State of Vermont completed bedrock and surficial geologic mapping of the town in 2012
3 (see Appendix D). Bedrock geology in town is dominated by two formations: the Moretown
4 formation along the western edge of town, and the Waits River Formation along the center to
5 eastern parts of town. Both are primarily rocks of metamorphic origin. The Moretown
6 formation is composed of rocks rich in calcium carbonate, which produces richer, more alkaline
7 soils with a higher pH. This tight rock formation has lower yields of groundwater. The Waits
8 River Formation on the eastern side of town has looser rock with a greater flow of groundwater.
9 This is where the more significant groundwater resources are likely to be found. Between the
10 two formations is a middle band of rock that produces rich soils, but is slightly tighter in
11 composition with less flow of groundwater.

12 The surficial geologic map for the town indicates much of the town's area is dominated either by
13 glacial till or lacustrine (lake) deposits of varying thickness over bedrock. The thickest surficial
14 deposits are located in the Winooski River Valley.

15 Extraction of soil, sand, and gravel is allowed as a Conditional Use in all five current zoning
16 districts. However, sand and gravel deposits are glacial in origin and generally follow the course
17 of streams and rivers, which are protected from extraction by state regulations. An Act 250
18 permit would be needed for any new proposed extraction activity. According to a map produced
19 by the state in the 1960s, there are no known viable sources of sand and gravel in town. Surficial
20 geologic mapping by the state indicates possible additional sand and gravel deposits in localized
21 areas. Large-scale earth resource extraction is not encouraged within East Montpelier.

22 Goals and Actions

23 ➤ **Goal 9.11:** Any new or expanded earth resources extraction operations will be developed to
24 minimize impacts on the environment and community.

25 ❖ **Policy 9.11:** *Earth resource extraction facilities shall not be located within villages or*
26 *defined growth areas.*

27 ✓ **Action 9.11.1:** Review and update the *Land Use and Development Regulations* to ensure
28 that development conditions address scale, screening, truck traffic, forest and riparian
29 habitat protection, and scenic resource protection.

30

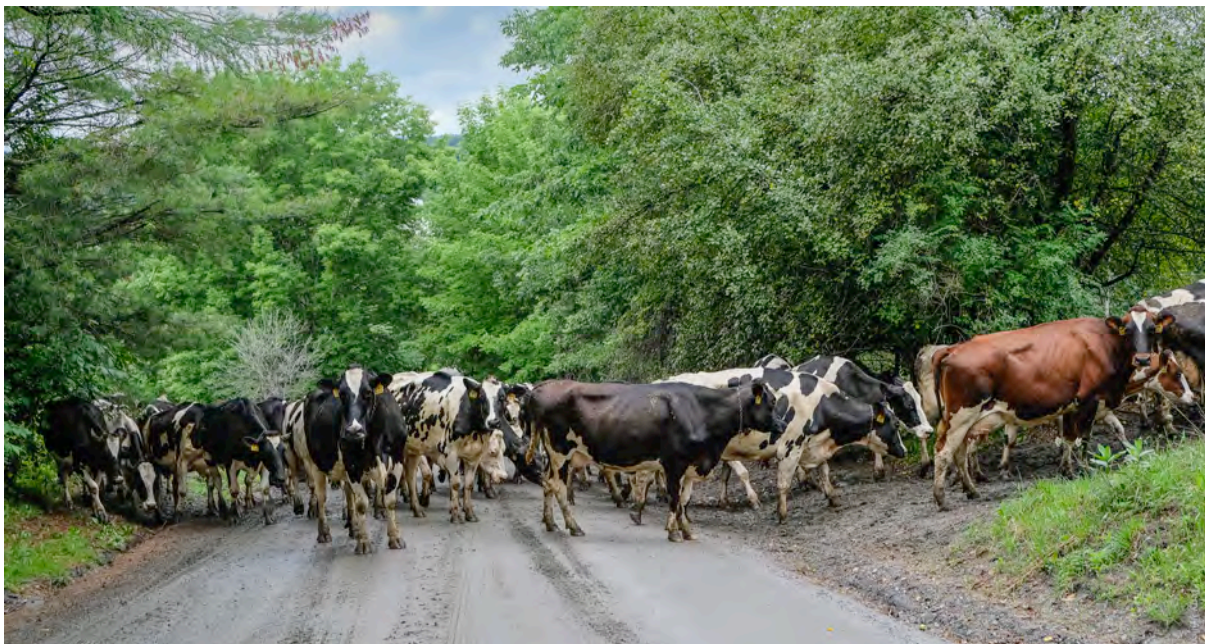
F. AGRICULTURE

History

East Montpelier has been a farming community since its earliest days. Its fertile soils led nineteenth-century settlers to make great efforts to clear land for farming. In the early years of agriculture, the primary industry was raising sheep; in 1850 sheep in East Montpelier outnumbered cows by more than three to one. However, the collapse of the wool market after the Civil War shifted the town's agricultural base to dairy farming. By 1880 East Montpelier had 185 farms and 1,748 milk cows. By 1890 more than 70 percent of the land in town was cleared and used for farming.

Before the invention of modern milking machinery and refrigeration, cows were milked by hand and the main farm products were butter and cheese, rather than fluid milk. In the early part of the twentieth century, two creameries served farmers in East Montpelier, and cream and butter were still the major commodities produced by the dairy industry.

During the twentieth century, improved transportation and the mechanization of agriculture opened new markets for fluid milk and fostered specialization in dairy farming. In 1901, there were 112 dairy herds in town with an average size of 16 milking cows. By 2017, only three dairy farms are left in town.



Cows crossing Snow Hill Road (Terry Allen)

1 **The LESA System**

2 At a 1988 Town Forum, residents were asked, “What do you want your town to look like in 20
3 years?” They identified agriculture and open-space protection as very important to the future of
4 the town. The Planning Commission invited a group of interested residents to form the
5 Agriculture and Open Space Committee. The same year, the town received a state grant for the
6 mapping and evaluation of agricultural land in East Montpelier. The committee used these funds
7 to develop a Land Evaluation and Site Assessment (LESA) system, a method for identifying
8 important agricultural land in town.

9 LESA uses a set of criteria to evaluate agricultural land on a scale of 0 to 300 points. The system
10 ranks the suitability of soils for agricultural purposes from 0 to 100. It then uses other criteria
11 chosen by the committee as important to East Montpelier for the other 200 points. Criteria in
12 this category include the location, size, and workability of a parcel. Aesthetic and recreation
13 values are also factored in. The LESA system continues to be used by the Conservation Fund
14 Advisory Committee to evaluate projects proposed for conservation funding. The system is also
15 useful to the Vermont Housing and Conservation Board (VHCB) in determining conservation
16 funding priorities.

17 **Farmland Conservation and the Current Use Value Program**

18 In 1989, the town acted on the recommendation of the Agriculture and Open Space Committee to
19 establish a land conservation fund. The purpose of this fund is to help preserve agricultural and
20 other lands that were identified as important in the LESA system. During the 1990s, six
21 agricultural land parcels were preserved using money from the Town Conservation Fund. Farm
22 and forestland lands in town continued to be protected with assistance from a variety of land
23 conservation organizations, such as the Vermont Land Trust, Trust for Public Lands, and others,
24 often using funding from the US Department of Agriculture’s Farm and Rangeland Protection
25 Program or Forest Legacy Program.

26 In 2011, East Montpelier had conserved 3,095 acres. This increased to 3,786 conserved acres by
27 2017. As shown on Maps 9 and 10, a large proportion of the conserved land is farmland.

28 The town has strongly supported its agricultural community in other ways. Beginning in 1975,
29 the town provided tax abatement contracts with farmers to encourage farming rather than
30 development. Town-sponsored abatements were discontinued in 2013 because the Current Use
31 tax stabilization program (formally known as the Use Value Appraisal Program) for farm and
32 forestland became a simpler and more appropriate option. In 2011, there were 8,823 acres of
33 East Montpelier’s agricultural and forestland enrolled in the Current Use Program. As of 2017,
34 there were 9,752 acres enrolled.

35 **Public Opinions on Agriculture**

36 The 2011 town-wide survey reinforced the importance of agriculture to the community.
37 Preservation of rural character through protection from development of open meadows, forest
38 areas and active farms were extremely important to individuals who completed the survey.
39 Local zoning regulations were considered critical to the protection of open space and the
40 prevention of strip development.

In 2003, East Montpelier residents voted on and passed a non-binding resolution concerning genetically engineered (GE) crops. State and federal legislation to prohibit or restrict the use of GE crops was not enacted. GE crops (also collectively grouped within genetically-modified organisms, or GMO) continue to be a cause for concern by some town residents. Commonly expressed concerns relate to interference with organic production and the wisdom of consuming GMOs.

Current Status

The two biggest and most prominent forms of agriculture in East Montpelier today are dairy farms, followed by diversified farms fueled by the local food movement. Organic production is a growing trend in town and across Vermont.

Agricultural land is defined as any land used for crops, hay, or pasture. It also includes woodland managed for maple production, Christmas trees, orchards, and nursery stock. The presence of agriculture is obvious to anyone driving around town. Over 20% of the acreage in town is currently under cultivation, substantially more than other towns in Central Vermont. This is due to East Montpelier's location in an upland valley with fertile soils, gently rolling terrain, and a good quantity of rain, and also to the families who own farms or farmland and who have a strong commitment to land conservation.

Agricultural Enterprises in East Montpelier

- Dairy farming
- Beef production
- Growing forage crops
- Growing Christmas trees
- Growing fruit crops, including apples, berries
- Growing vegetable crops
- Maple syrup production & maple products
- Other meat production (lamb, pork, chickens, turkeys, etc.)
- Value added products, including farm food processing
- Raising horses
- Goat and sheep dairy
- Greenhouse vegetable production
- Small-scale egg production
- Growing of herbs and flowers
- Agritourism and farm-based education

Dairy Farming



Fairmont Farm (Jean Vissering)

Three dairy farms remain in town as of 2017: Fairmont Farm (a large conventional dairy), the McKnight Farm (a large organic dairy), and the Butler Farm (a small “natural” dairy). Much of the former Lylehaven farm is now owned and managed by Fairmont Farm.

Although there are fewer dairy farms, each supports larger herds. The total number of dairy cows has remained

relatively stable over time, however, milk production per cow has increased, requiring more land to feed these animals. A considerable portion of the prime and good agricultural soils in town is devoted to grass and corn silage production for dairy feed. The ability to produce high-quality grass and corn locally has contributed significantly to the continued success of East Montpelier farms. Much of this land is leased by the dairy farms from landowners who are not farmers. This demand for crops provides income to the landowner and enables many to keep good land open and in agricultural use. The larger dairy farmers also rent substantial crop acreage in nearby towns to provide enough feed for their cattle.

Today dairying is a very capital-intensive business with a narrow profit margin. Volatility in dairy pricing is influenced by national and global market factors that are beyond the control of our farmers. Overproduction in western states and globally, and fluctuating but often high costs of energy and grain have had a large impact on dairy farm profitability. Clearly, dairy and livestock farms have had a profound positive impact on our community both economically and visually.

Diversified Farms and the Local Food Movement

East Montpelier has had a history of primarily smaller farms. Today some of these smaller farms have had somewhat of a renaissance due to the local food and Farm to Table movements. Even though a number of our farms have long been producing local food, recent years have seen a greater demand for these types of agricultural products. This is due to the fact that consumers today want to know who produces their food and where it comes from. Many also attribute health benefits, higher quality, and better flavor to locally produced food. Local food can also decrease energy use by reducing the need for long distance shipping.



Center Farm Sheep (Gary Ann Lewis)

In the past over 90% of Vermont's food was imported into the state, however, this is changing. Small and large agricultural enterprises are producing a much broader range of all types of foods and value-added products. With increasing energy costs and possible disruption of energy sources it is prudent to produce more of our food right here in town. East Montpelier's proximity to Barre, Montpelier and Burlington has provided much greater marketing opportunities for diversified farming in town. Some of these products are marketed directly to consumers, including through farmers markets and community-supported agriculture (CSA) programs, or to restaurants, stores, schools, and other institutions. It is likely the trend in local food production will continue and diversified agriculture may have an even greater presence in our town in the future.

1 Vermont Required Agricultural Practice Regulations

2 The Vermont Agency of Agriculture, Food and Markets regulates all farming activities, and
3 requires compliance by all farms with Vermont Required Agricultural Practice (RAP)
4 regulations. These apply to the construction and maintenance of farm structures, as well as
5 waste management and nutrient application in order to protect water quality. Compliance with
6 RAP takes the place of local zoning regulations for agricultural practices, although all farm
7 structures must comply with local zoning setbacks for buildings. Towns are allowed to regulate
8 only very small agricultural activities.

9 Vermont law places a high value on keeping agricultural land in production, making the
10 presumption that farming activities that comply with RAP regulations are not a nuisance. Title
11 12 Section 5753 of Vermont law reads: “Agricultural activities conducted on farmland, if
12 consistent with good agricultural practices and established prior to surrounding non-agricultural
13 activities shall be entitled to a rebuttable presumption that the activity does not constitute a
14 nuisance.”

15 Agricultural Impacts on the Community

16 Agriculture is not without impacts, and a few concerns have been raised in recent years.

- 17 • Larger farms generate a fair amount of road traffic. In addition, farm equipment has
18 become increasingly large, including considerable use of heavy trucks. Residents have,
19 at times, raised concerns about farm traffic on local roads. Excessive speeds and noise
20 are among the concerns raised. The weight of heavy equipment can also damage town
21 roads.
- 22 • Runoff of soil, nutrients, and chemicals associated with farming are contributing to water
23 quality concerns in lakes and streams statewide. Improved agronomic practices can
24 minimize runoff from fields. These approaches require state incentives and enforcement,
25 as towns have little authority.
- 26 • Farmland conservation is not necessarily a good idea everywhere. The town wishes to
27 concentrate growth within its villages and growth areas. Ensuring that sufficient
28 developable and affordable land exists for future housing growth is an important town
29 goal, and future land conservation for agricultural purposes will not meet the goals of this
30 town plan. Village growth areas are best suited to housing and/or businesses growth. At
31 present, East Montpelier Village is the only village with defined boundaries.

32 Goals and Actions

- 33 ➤ **Goal 9.12:** Support a diverse agricultural community.
- 34 ✓ **Action 9.12.1:** Consider provisions in the *Land Use and Development Regulations* that
35 accommodate agricultural enterprises, such as tourism and events, farm stands, sales of
36 value-added products, or recreation.
- 37 ✓ **Action 9.12.2:** Ensure that subdivision, access and rights of way preserve the viability of
38 productive farmland.

- 1 ✓ **Action 9.12.3:** Showcase local agricultural products at town events.
- 2 ➤ **Goal 9.13:** Encourage farming practices that protect wildlife habitat, water quality and soil
3 productivity.
- 4 ✓ **Action 9.13.1:** Ensure land conservation easement includes appropriate stream and
5 roadside buffers to minimize agricultural run-off.
- 6 ✓ **Action 9.13.2:** Encourage productive field cutting schedules to allow young ground
7 nesting birds, such as bobolinks, to leave their nests.
- 8 ➤ **Goal 9.14:** Support the conservation of prime and actively used farmland outside of village
9 and growth areas.
- 10 ✓ **Action 9.14.1:** Coordinate conservation efforts with landowners and conservation
11 organizations to ensure that town goals are met.
- 12 ✓ **Action 9.14.2:** Support farmland conservation that meets town goals through the
13 Conservation Fund.



Agricultural fields along Vincent Flats Road (Kate Bean)

G. SCENIC RESOURCES

History

For much of its history, East Montpelier has been a town of enviable scenic beauty. The town is situated in the broad Winooski River valley, almost completely surrounded by low hills and mountains distant enough to provide long views.

The town has undergone considerable change to its scenic character in the past century, including changes in land use, advances in farm management techniques, development, loss of trees such as elms and chestnuts (while gaining overall in forested area), and loss of a number of older structures, including houses, barns, bridges, and stone walls.

Current Status

East Montpelier's gently rolling topography and rich soils have sustained a broad tapestry of fields and meadows that give the town a distinctly open landscape, with frequent views toward the surrounding and distant hills and mountains.

The town's scenic beauty is the result of a small-scaled and intimate landscape of villages, farmsteads, and homes in the midst of a varied pattern of field and forest. In addition to roadside views, many of the wilder back lots are familiar to residents because of their accessibility by an extensive network of walking and snowmobile trails.

The average tourist driving through East Montpelier on US 2, however, may have a quite different impression of the town. While this perspective offers beautiful views of the Winooski River, and the opportunity to visit a classic country store, US 2 is becoming increasingly characterized by numerous small commercial businesses organized into strip development patterns. New electrical infrastructure, including commercial solar projects, larger distribution and Phase 3 transmission lines are beginning to change roadsides as well.

East Montpelier Village remains an important focal point of the town with numerous historic buildings. Recent improvements include a town green in front of the Old Brick Church, entry signs, and new sidewalks and bike lanes. North Montpelier and East Montpelier Center are also important scenic focal points.



Sparrow Farm (Bob Klein)

Subdivisions in town have most often consisted of a few lots. Nevertheless, this incremental development can result in eroding rural character especially when they are poorly planned with houses sprawling across former open meadows, with numerous roads and drives that inefficiently cut up the landscape. By contrast, the Sparrow Farm provides an example of accommodating a number of new homes while protecting the most scenic and valuable open space.

Historically, development in the rural areas of town has been located close to roads, with buildings usually oriented either parallel or perpendicular to the road. Houses and outbuildings oriented randomly, in numerous directions rather than in tight and orderly historic patterns, can create discordant patterns of development that are more suburban than rural in character. Siting development at the edge of valued open agricultural fields or intact woodland blocks, rather than within them, can help retain rural character. Clustering buildings and structures, reducing visibility of parking and other discordant structures, and sharing driveways can also help.

A few significant steps have been taken over the past few decades to protect the scenic and rural character of the town. Perhaps most important has been the conservation of numerous agricultural fields, forest land, wetlands and other significant landscapes that contribute to the scenic beauty of East Montpelier. The town evaluated the relative value of farm and forest lands using a methodology called the LESA system (Land Evaluation and Site Assessment). Scenic values were part of the evaluation system, although secondary to the agricultural and timber production values of these lands. This systematic approach to evaluating the scenic recreational, forestry and agricultural values has helped the town procure funding from the Vermont Housing and Conservation Board to protect a number of valuable farms, forest lands and trail corridors in town. The town's Conservation Fund is also valuable, providing essential contributions to these acquisitions.

Identifying Scenic Resources

The following six characteristics of rural landscapes were identified in the 2011 Town Survey as highly valuable, and are known to contribute to scenic quality generally.

Village Centers and Hamlets



North Montpelier Village (Jean Vissering)

East Montpelier's village settlements add diversity to the landscape and create cultural focal points. The clear distinction between these concentrated settlements and the surrounding landscape dominated by open space is critical to the scenic character of East Montpelier. All three villages retain historic settlement patterns that include buildings in close proximity, usually oriented at right angles to each other and

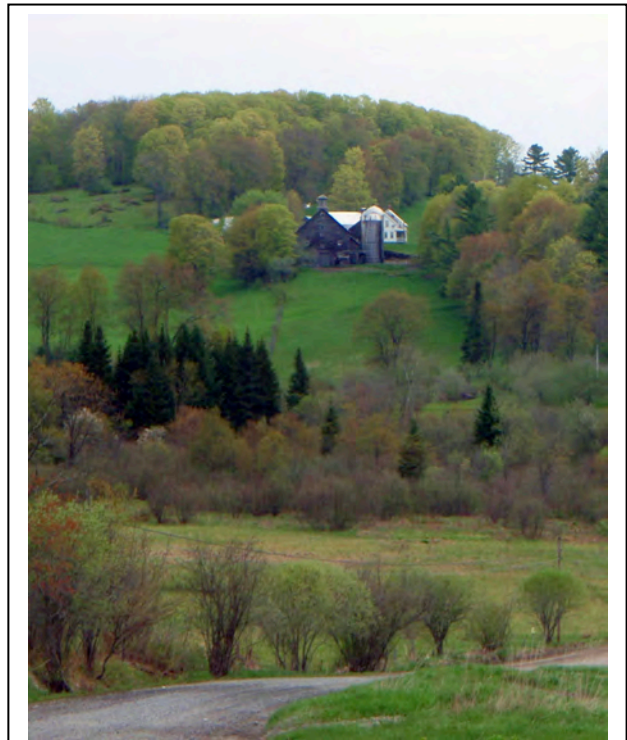
to the road. Development tends to be one lot deep but often a lot includes a cluster of several buildings such as a house, barn, and outbuildings.

Historic and/or natural focal points in East Montpelier Village include the Old Brick Church, C.P. Dudley Store, and the Winooski River. In North Montpelier, scenic resources include historic old mills and residences, the falls, and the pond. Scenic resources in East Montpelier Center include the Old Meetinghouse Church and the historic Parley Davis House.

Each village has a distinct character. East Montpelier Village includes a mix of commercial and institutional uses along with residential and home occupations. North Montpelier has a mix of residential and home occupations, but has lost its commercial uses in recent years. Both are located along state highways. East Montpelier Center is quieter and more residential in character and the village is strongly integrated with its agricultural surroundings. The Center Farm is located right in the village.

Rural Agricultural and Open Lands

Outside of the village centers, most of East Montpelier is characterized by farmsteads and residential uses separated by large areas of fields and forestland. The abundance of open meadows distinguishes East Montpelier from other central Vermont towns. It creates diverse patterns of crop fields, hay fields, pasture, sugarbush, wetland, and wildland. Active farms are essential to maintaining these diverse patterns in the landscape. The 2011 Town Survey overwhelmingly identified agricultural uses as vitally important to the town with scenic character. Protecting open agricultural meadows to the greatest extent possible will be critical to retaining East Montpelier's scenic and rural character.



Butler Farm (Leon Harris)

Distant and Middleground Views

The abundance of open meadowland provides numerous opportunities for views around town. Many spectacular views include distant mountains, such as the Green Mountains, Worcester Range, Marshfield Cliffs, or Spruce Mountain. Some even include the White Mountains in New Hampshire. Foreground meadows enhance many views. They are the windows to distant views, but they are critical to the quality of the view itself. Middleground views often include patterns of field and forest and sometimes a local natural or cultural focal point such as Sibley Farm as seen along Sibley Road or from Lyle Young Road.

Ponds and River Corridors

Water features nearly always contribute to scenic quality. One of the most important in East Montpelier is the Winooski River, which meanders along US 2 until it veers off part way to

Plainfield and winds its way under the old covered bridge on Coburn Road. Views of the river are often enhanced by floodplain meadows, but in a few places, development has impaired the view. There has been recent interest in improving both visual and physical access to the Winooski River. In particular, residents of East Montpelier Village have discussed the possibility of a River Walk along the banks of the Winooski within the village. The Kingsbury Branch through North Montpelier Village offers similar opportunities.

East Montpelier also has several ponds including North Montpelier Pond, Sodom Pond, Horn of the Moon Pond and the 6-acre swimming hole known as Coburn Pond, accessed from Coburn Road. North Montpelier and Sodom Ponds also have frontage in the town of Calais.

Roadsides

Narrow gravel roadways are an important part of East Montpelier's scenic and rural character. Some of these roadways are further enhanced by roadside features such as stone walls or old maple trees.

Hilltops and Ridgelines

Ridgelines are particularly important because they are often viewed from many locations and provide a backdrop for other scenic features. East Montpelier has some distinct ridgelines and a number of prominent hilltops. Long Meadow Hill is one of the highest and forms a natural backdrop for much of the western part of town. Other hilltops provide opportunities for distant views, such as the high meadows behind Fairmont Farm along the East Montpelier trail system.

Significant Scenic Resources

Specific areas in town with exceptional scenic values are identified below. All views are accessible from public roads, as shown on Map 12. Other scenic areas exist, however, roadside views are experienced by the largest number of people. All significant scenic roadways included at least two exemplary examples of the scenic characteristics described above. With the exception of villages, all are intact landscapes with minimal development other than historic homes and barns. All include diverse elements such as fields, meadows, water features, wooded hillsides, distant views, and/or old roadside trees. Historic villages are the focal points of the rural landscape, and feature many historic structures.

Significant Views in East Montpelier			
The following are particularly significant views visible along public roads. Road sections are shown on Map 12.			
Location	Description	Total Distance (Miles)	Scenic Resource Type
North Street and Sparrow Farm Road	Distant views to Worcester Range, Camels Hump, and Mount Ellen; foreground meadows, farm structures, large roadside trees	1	<ul style="list-style-type: none"> Rural Agricultural and Forest Land Distant Views Roadside Features Historic Farm Structures
Cummings Road	Distant views to SW to Camels Hump and Mount Ellen; foreground meadows	.1	<ul style="list-style-type: none"> Distant Views Rural Agricultural Land

Location	Description	Total Distance (Miles)	Scenic Resource Type
County Road south of Haggett Road	Distant view to east toward White Mountains, foreground agricultural field and White Cemetery	.1	<ul style="list-style-type: none"> Distant Views Rural Agricultural and Forest Land
Center Road South	Foreground open meadows on both sides of Center Road with views to the Green Mountains and middleground hills. Historic farmstead is on the north side of the road near top of hill.	.3	<ul style="list-style-type: none"> Distant Views Rural Agricultural and Forest land Historic Farm Structures
Center Road North	Scenic road with several historic farms, a large sugarbush, mature roadside maple trees, diverse mix of open meadows and forest land; views to Sodom Pond and surrounding rural landscape	3.7	<ul style="list-style-type: none"> Middleground Views Rural Agricultural and Forest Land Historic Farm Structures Roadside Features Water Feature
Sibley Road/ Putnam Road	Scenic road with three historic farmsteads and barns set in an open agricultural landscape	1.6	<ul style="list-style-type: none"> Distant Views Rural Agricultural and Forest Land Historic Farm Structures
Intersection of Dodge, Putnam, Snow Hill and Vincent Flats Roads	Views to east along Snow Hill Road to Marshfield cliffs and the Spruce Mountain ranges; foreground pattern of fields and forests in the foreground with some residential structures. Views looking west to the historic Four Corners Schoolhouse.	.4	<ul style="list-style-type: none"> Distant Views Rural Agricultural and Forest Land Historic Structures Hilltops and Ridgelines
Clark Road south of East Hill Road	Distant views to west of Camels Hump and Worcester Range, foreground open meadows.	.6	<ul style="list-style-type: none"> Distant Views Rural Agricultural and Forest Lands
East Montpelier Center (Hamlet)	A cluster of tightly knit homes and a working farm with the Old Meetinghouse Church as a focal point. Open agricultural meadows and forest land surround East Montpelier Center	.5	<ul style="list-style-type: none"> Historic Buildings Rural Agricultural and Forest land Hamlet
North Montpelier Village	A distinct village with historic homes, old factory buildings, and a former village store. North Montpelier Pond (partially in Calais) and Kingsbury Branch enhance views.	.5	<ul style="list-style-type: none"> Historic Buildings Village Water Features
East Montpelier Village	Historic center of town with numerous historic structures in a traditional village pattern. Old Brick Church, Dudley's Store, an old Schoolhouse (now municipal offices), along with the Winooski River are important focal points.	.7	<ul style="list-style-type: none"> Historic Buildings Village Water Feature

- 1
- 2 Development is not prohibited within these scenic areas, but careful siting, design, and in some
- 3 cases, screening shall be required in order to protect the identified characteristics of these views.
- 4 Foreground areas (within ¼ -½ mile) are particularly sensitive to visual impacts. Larger solar
- 5 projects designed to serve more than the needs of individual residences, commercial or

institutional needs (villages), an individual farm or a small group of residences shall not be permitted in these viewsheds. Screening and careful siting of smaller projects will be critical to protect resource values. (See Energy and Energy Conservation).

The Future

To a large extent, the town has benefitted from a relatively slow rate of growth, along with the deliberate conservation efforts by many landowners in town. Many of the town's foreground and distant views are now permanently protected. As numerous people noted in the Town Survey, despite living right next door to our state's capital, East Montpelier enjoys a rural landscape with relatively quiet back roads. However, owners of larger properties including existing farmland may wish to sell or subdivide these properties. Moreover, citizens have expressed a desire to encourage growth, especially within our identified villages and growth areas. Town residents have expressed interest in providing more affordable land and housing within these areas. Renewable energy facilities also have the potential to create aesthetic impacts.

Growth and development does not mean sacrificing the scenic and rural character of our landscape. Planning and regulatory efforts, along with occasional financial investments are needed to guide growth in a positive manner. Implementation of the *East Montpelier Village Master Plan* will enhance the visual character of the village, and planned revisions to the *Land Use and Development Regulations* will discourage strip development and help protect scenic views.

Goals and Actions

➤ **Goal 9.16:** Protect East Montpelier's significant views.

❖ **Policy 9.16:** *Development within identified significant viewsheds shall not unduly detract from identified scenic values within the viewshed. Particular attention shall be focused on development within the foreground (within ¼ -½ mile) of the viewpoint. Development siting shall employ all reasonable siting and design techniques to minimize impacts on views, including, but not limited to: siting development at the edge of views; using natural vegetation and/or topography to screen prominent or discordant elements of development, such as parking, storage and private utility structures; limiting the size and scale of structures; and using Planned Unit Development to maintain compact patterns that do not encroach on viewsheds.*

✓ **Action 9.16.1:** Land conservation efforts should include protecting identified scenic viewsheds, especially foreground areas.

✓ **Action 9.16.2:** Provide guidance in the *Land Use and Development Regulations* for protecting characteristic scenic resources throughout town with particular attention to identified scenic views.

- **Goal 9.17:** Retain the scenic rural character of town roadways.
- ✓ **Action 9.17.1:** Develop and implement road maintenance policies that minimize road widths and retain roadside vegetation, particularly along identified scenic roadways.
- ✓ **Action 9.17.2:** Ensure *Land Use and Development Regulations* encourage compact development that protects scenic and natural resources.



Views of the Worcester Range (Jean Vissering)

Chapter 10

LAND USE

History

East Montpelier lies along the Winooski River, with much of the town underlain by the Wells River geologic formation that has rich calcareous soils. The Winooski River, and some of its glacial predecessors has left rich fluvial deposits along with a few pockets of deep sands. The far western portions of town are underlain by the Moretown formation. Some of the town's highest hills and important forest lands are in this part of town. A network of streams and wetland are evidence of excellent groundwater supplies, especially in the eastern portions of town.

The town's cultural landscape has evolved over centuries. Before 1848, most of the town was the rural hinterlands of the Village of Montpelier. The Winooski River, and later the railroad supported mills and other businesses within East Montpelier Village (then known as East Village). A second center developed in North Montpelier where there were mills along the Kingsbury Branch. Parley Davis, one of the original settlers, planned for East Montpelier Center to become the seat of town government and reserved space for a town common adjacent to the Old Meeting House Church. Until the 1940's the landscape would have been almost entirely open, with numerous small farms, the homesteads and barns of which grace our landscape today. Thanks to relatively gentle slopes and rich soils, agriculture remains an important activity, albeit with fewer but larger farms.

Current and Future Land Uses

The landscape of East Montpelier is highly valued by citizens. The rural character of the town is impressive, given the close proximity to Montpelier and Barre. The town reflects the classic Vermont development pattern of distinct villages (East Montpelier Village, North Montpelier and East Montpelier Center), surrounded by abundant farmland and forests.

Map 13 shows current land uses, based on 2013 remote sensing data. The location of our three villages is shown on the map. Forests, homes and farms occupy most of the rest of the landscape, with additional commercial and industrial development near and along US 2 and VT 14. Map 10 shows that approximately 50% of the town is conserved and/or restricted under the Current Use program.

East Montpelier's zoning bylaws were first developed in the early 1970s. The existing zoning districts and standards, summarized in the accompanying text box, have not changed since 1974. The zoning bylaws are typical for that era, when zoning norms promoted suburban land use patterns. The development patterns that have occurred in the past four decades reflect the zoning: large residential lots with large setbacks, in contrast to the historic homes on smaller lots close to the road.

An overriding goal for the future will be to retain the town's beauty and rural character while promoting future growth, especially within East Montpelier Village and the other identified growth areas. Other important challenges include encouraging more diverse and affordable housing, community-centered businesses, and preventing strip development.

Map 14 shows future land uses. This vision of future land use builds on the future land uses in the 2016 *Central Vermont Regional Plan* and the 2017 *East Montpelier Village Master Plan*. East Montpelier's current zoning districts do not, in all cases, reflect or support the future land use areas.

Future Land Use Areas

- **Villages** accommodate many residential, civic, commercial and light industrial uses. Factors in determining the presence and boundaries of a village include: a state-designated village center, local road network and availability of public utility infrastructure, relatively dense development and smaller lot sizes (1 unit per acre or higher), a mix of land uses, and a distinct separation from surrounding rural areas. The boundaries for East Montpelier Village on this map are based on the village master plan.
- **Hamlets** are smaller than villages, and are typically concentrated residential settlements woven into the fabric of rural areas. Hamlets may or may not provide minor commercial and civic services. North Montpelier and East Montpelier Center are shown as hamlets on this map.
- **Rural areas** include prime agricultural soils, forest blocks, low-density residential, small-scale commercial and industrial uses, and recreational uses.
- **Industrial areas** are where existing and future commercial and industrial activities are encouraged. East Montpelier's existing Industrial zoning district is depicted as an industrial area.
- **Resource areas** require special protection or consideration due to their uniqueness, irreplaceable or fragile nature, or important ecological function. Resource areas include: conserved lands; slopes of 25% or more; rare, threatened or endangered species; significant natural communities; wetlands, special flood hazard areas; and shoreline protection areas.

Villages, Hamlets and Growth Areas

East Montpelier has three villages, East Montpelier Village, North Montpelier, and East Montpelier Center. East Montpelier Village is the primary town center with a concentrated mix of residential, institutional and business uses. Each village has a distinct character, but retains traditional settlement patterns with buildings located close to the road and to each other, oriented at right angles, and often with a range of architectural styles, most often at least two stories in height.

East Montpelier Village and North Montpelier are identified as growth areas. Additionally, the town has identified a potential growth area Gallison Hill near U-32 Middle/ High School. Future growth should be focused within these villages and growth areas. None are, as yet, specifically zoned in a way that defines them as villages. The 2017 *East Montpelier Village Master Plan* provides a road map for future growth in this village, including a framework for village zoning.

In order to provide available land for housing and commercial development, future land conservation within identified village and growth areas may not be in the town's best interest. Villages and growth areas should include networks of open space, trails, parks, and play areas, but large conserved areas should be reviewed to ensure they meet the goals of the town, especially if town funding will be required.

1 East Montpelier Village

2 East Montpelier is our largest village and the seat of town government. It is located along the
3 Winooski River at the junction of two major roadways, US 2 and VT 14. Important focal points
4 found in the village are Dudley's Store, the Old Brick Church, the Post Office, the Town Office
5 and the Fire Department.



East Montpelier Village (Jean Vissering)

6
7 The historic center of East Montpelier Village was officially designated as a Village Center by
8 the state in 2008 (see Map 15). This recognition provides tax incentives to owners of historic
9 properties for building improvements, and gives the town higher standing when applying for
10 grant opportunities offered by state agencies. East Montpelier intends to maintain the Village
11 Center designation and to propose a minor boundary modification.

12 The historic village center and adjoining village areas on the northwest side of the Winooski
13 River have come to be known as the Lower Village. Village areas on the hill across the river
14 have come to be known as the Upper Village. A variety of commercial businesses are located in
15 the Lower and Upper Village. East Montpelier Elementary School is located nearby.

16 Current zoning for East Montpelier Village is divided among the Residential and Commercial
17 District, the Commercial District, the Rural Residential and Agricultural District, and a small
18 portion of the Industrial District.

19 For many years there has been sustained interest in enhancing the village as a place to live, work
20 and do business. Following several earlier studies, the Planning Commission completed the *East*
21 *Montpelier Village Master Plan* in 2017. The village master plan provides a framework for
22 defining a specific village area, and for moving forward to achieve a range of goals that will
23 fulfill desires expressed in numerous public workshops by town citizens. These goals include
24 new village-specific zoning regulations and finding solutions to providing greater access to
25 wastewater and potable water through community systems. Encouraging new businesses that
26 serve the community and affordable housing are important, along with providing a more
27 pedestrian friendly and attractive village.

28 The East Montpelier Village Planning Areas map (Map 16) shows the Lower and Upper Mixed
29 Use planning areas, surrounded by village residential areas. The proposed lot sizes in East
30 Montpelier Village range from $\frac{1}{2}$ acre to 1 acre.

31

1 North Montpelier

2 North Montpelier is an attractive cluster of historic homes and old factory buildings set at the
3 south end of North Montpelier Pond, and along the Kingsbury Branch. The small village is at
4 the intersection of VT 14 and VT 214.

5 The village recently lost a post office and general store, which had served as community focal
6 points. The village is now entirely residential. Residents worked with the Agency of
7 Transportation to ensure a new bridge over the Kingsbury Branch would be attractive and
8 include a sidewalk. The village is handicapped by the lack of easy access to potable water and
9 wastewater services. The village water system has fallen into disrepair and users have converted
10 to private wells.

11 The current zoning in North Montpelier is Residential and Commercial.

12 Detailed master planning has not been done for North Montpelier, but residents remain interested
13 in providing small community-oriented commercial uses, such as a country store, while retaining
14 the historic character and links to nearby open space and North Montpelier Pond. Commercial
15 development should be appropriately designed for the rural village setting, and land use
16 regulations will need review to ensure they accomplish this.

17 East Montpelier Center

18 East Montpelier Center is a residential hamlet, located on Center Road and extending from
19 Barnes Road to Dodge Road. The Center contains several historic structures, including the
20 Parley Davis house, the Old Meeting House Church, a former schoolhouse, and Doty Cemetery.
21 Homes are clustered along Center Road, extending onto Barnes, Bliss and Brazier Roads. Center
22 Farm is in the village area, with abundant farmland and open space surrounding it. The Old
23 Meeting House Church is the focal point of the village area, serving its congregation and
24 providing a gathering place for community members.

25 Traffic through the Center has been an on-going concern. The town recently reduced traffic
26 speeds on Center Road to 25 mph.

27 East Montpelier Center is in the current Rural Residential and Agricultural zoning district and
28 the Agricultural and Forest Conservation district.

29 East Montpelier is likely to remain a small residential and agricultural center of town, with the
30 historic focal point being the Old Meeting House Church. Future growth should be concentrated
31 near Center Road. Techniques for traffic calming through the hamlet should be explored.

32 Gallison Hill Growth Area

33 An area around the U-32 Middle/High School has been identified as a possible growth area for
34 the town. Montpelier's sewer and water system extends to the school, providing an opportunity
35 for an extension that could lead to future growth. No planning studies have been conducted.

36 The Gallison Hill area is currently in the Residential and Commercial zoning district and the
37 Rural Residential and Agricultural district.

1 The proximity of the school makes this area appropriate for residential growth, or potentially
2 academically-oriented mixed uses. More detailed studies of the area's future potential should be
3 undertaken within the next five years.

4 **Rural Land Use Areas**

5 The majority of land in East Montpelier is considered rural and is primarily residential,
6 agricultural and forest. There are a number of home occupations, and many farms sell a range of
7 products. Two of the larger businesses within primarily residential areas are the Morse Farm and
8 Bragg Farm. Both are located on paved roads and are well known tourist destinations.

9 The rural areas of town generally retain a pattern of homes separated by open space, with
10 occasional clusters of houses concentrated on smaller lots. Housing subdivisions tend to be
11 small, consisting of two or three lots. A five-lot subdivision is on the larger end of what
12 typically comes before the Development Review Board.

13 The Selectboard and Planning Commission have recently noted that nearly 50% of the land area
14 in town is either protected by conservation easements (33 parcels; 3,786 acres), and/or is in the
15 Current Use Program (109 parcels; 9,752 acres). Discussions have focused on the extent to
16 which the amount of conserved land may inhibit residential growth within the town. Other
17 discussions have considered whether conservation easement projects seeking contributions from
18 the town's Conserved Lands Fund should include provisions that help accomplish some of the
19 town's other goals, such as renewable energy generation, recreational trail easements or housing.

20 Another issue that has been raised in recent years is poorly planned subdivisions, where houses
21 sprawl across the landscape. Poorly planned subdivisions erode valuable farm and forest lands,
22 as well as disrupt the traditional rural pattern of clustered buildings separated by open space.

23 Also of concern is the increasing amount of commercial development outside of village areas,
24 especially along US 2 outside of East Montpelier Village. Businesses include storage units, car
25 dealerships, camper and RV sales, a timber framing business, and a home and garden center.
26 These businesses contribute to the town's tax base, and some would be unsuited to a village
27 setting. At the same time, the village's gateways are evolving into strip development. Strip
28 development tends to be inefficiently organized, with buildings set back far from the road and
29 parking and vehicles prominently displayed in front, dominating the view. Strip development
30 was identified in the 2011 survey as a significant concern. Preventing strip development in the
31 rural areas outside the villages is a challenge for the future.

32 Rural land use areas are currently in the Agricultural and Forest Conservation zoning district, the
33 Rural Residential and Agricultural District, the Residential and Commercial District and the
34 Commercial District.

35 While growth is expected to happen within rural areas, it is the intention of this plan that
36 development within these areas will follow a rural pattern. Overall densities will remain low,
37 however, clustering of structures will be encouraged in order to keep agriculture and forestlands
38 open. Front setbacks should be reduced to allow development closer to the road. Shared
39 driveways and infrastructure will be encouraged. Regulatory options should be evaluated to
40 promote more efficient development siting on large lots, retaining more contiguous open space.
41 Structures will be oriented, to the extent possible, to reflect traditional patterns and forms.

Visually intrusive or discordant elements such as larger parking areas, utilities, and storage areas should be screened and/or located away from roadways.

Commercial development in rural land use areas is anticipated, however, strip development is not desired. The goal is to allow rural commercial development with a more efficient and attractive pattern of growth that improves the town's gateways and overall rural character. Future requirements should include the efficient use of land; minimizing the number of access roads; locating parking, utilities, sale items, etc., to the rear of buildings or otherwise screening such uses. Commercial uses may not be considered appropriate for some rural areas.

What is Strip Development?

Title 10: Chapter 151, the Vermont statute dictating the Act 250 land use permitting process, defines "strip development" as follows:

"**Strip development**" means linear commercial development along a public highway that includes three or more of the following characteristics:

- broad road frontage,
- predominance of single-story buildings,
- limited reliance on shared highway access,
- lack of connection to any existing settlement except by highway,
- lack of connection to surrounding land uses except by highway,
- lack of coordination with surrounding land uses , and
- limited accessibility for pedestrians. "

Industrial Areas

The Industrial District is located between US 2 and VT14. It includes the capped Central Vermont Landfill and Casella's transfer station, as well as a number of other businesses such as Huntington Homes, Packard Fuels, Vermont Country Campers, and the Central Vermont Humane Society. There are also a number of homes in this area. The area has been underutilized for business and industrial growth, in part due to the lack of available water and wastewater services.

A small portion of the area currently zoned for industrial uses is located within the area proposed for village zoning in East Montpelier Village. Some sections of the industrial area are currently in residential use. Providing available land for businesses unsuited to a village setting is important. Evaluating the industrially zoned lands will be important for future planning, as well as examining the potential for added infrastructure to attract businesses. The industrial area may be suited to future energy growth, such as larger solar projects.

Resource Areas

These areas are protected areas where development cannot or should not occur. East Montpelier's resource areas include conserved farm and forestlands, significant natural habitats, wetlands, shorelands, and floodplains. Most of these areas are already protected by conservation easements or by zoning regulations. Additional steps are needed to protect significant forest areas.

Land Use Regulations and Zoning Districts

Zoning regulations must reflect the goals and policies stated in the Town Plan. East Montpelier's *Land Use and Development Regulations* were developed in the early 1970s. The

1 regulations were last revised in 2015 to update the flood hazard regulations, conservation overlay
 2 districts, groundwater withdrawal allowances, and to clarify the procedures for a Certificate of
 3 Compliance.

4 The zoning districts, boundaries, purposes, lot sizes and setbacks have not been revised since
 5 1974. As a result, the regulations have not kept pace with current conditions or development
 6 trends and may not be meeting the stated purpose. In addition, the Town recently completed the
 7 *East Montpelier Village Master Plan*, and regulations will need to be changed to reflect the
 8 village planning areas, including updating planned unit development and parking standards.

9 The town's current zoning districts are summarized in the accompanying text box. The town
 10 received a municipal planning grant for 2018-2019 to review and update the *Land Use and*
 11 *Development Regulations*, including adoption of new zoning districts for East Montpelier
 12 Village.

East Montpelier Existing Zoning Districts

Zone A Commercial District (600 acres): The purpose of this district is "to encourage a mix of small-scale business uses at moderate densities in an area with convenient access to principal highway corridors, while avoiding strip development patterns and maintaining safe and efficient traffic flow." The district currently includes a number of residential uses as well as commercial uses. The district abuts Rural Residential and Forest/Agriculture districts in Plainfield. A significant portion of the district is within flood hazard and river corridor areas. The minimum lot size is 1 acre.

Zone B Industrial District (531 acres): The district's purpose is "to encourage a variety of industrial, manufacturing and appropriate commercial uses at moderate densities and in a compact settlement pattern in locations that have historically been used for such uses and which are served by good highway access." At present, the area consists of a mix of residential, industrial and commercial uses including the Central Vermont Solid Waste Management District Transfer Station. The minimum lot size is 1 acre.

Zone C Residential and Commercial District (2,348 acres): This district occupies two areas of town near state highways. East Montpelier and North Montpelier Villages are currently within this district. The purpose is to "promote compact residential development and commercial uses compatible with the scale and character of residential neighborhoods within and surrounding traditional village centers." The minimum lot size is 1 acre.

Zone D Rural Residential and Agricultural District (8,004 acres): Zone D is divided among three areas of town. Most of East Montpelier Center is within this zone. Its purpose is to "promote agriculture and forestry while accommodating low density residential development and other compatible non-residential uses." Minimum lot size is 3 acres.

Zone E Agricultural and Forest Conservation District (8,998 acres): Zone E covers the rural areas in the northern part of town. Many of the town's conserved lands are within this zone. Its purpose is to "promote agriculture, forestry and low density residential development in areas with limited access to public roads and community services while protecting natural resources and the district's rural character." The minimum lot size is 7 acres.

Conservation Areas Overlay Districts: East Montpelier has two conservation districts, the overall purpose of which are to "ensure the protection of critical natural resources by ensuring that development does not degrade or impair the ecological values and functions associated with the resources in the overlay districts, regardless of the underlying zone." The Wetland Overlay District includes all known wetlands and surrounding buffer areas. The High Elevation Overlay District includes all lands in town over 1,500 feet in elevation. These areas are currently forested.

Flood Hazard Areas: The Flood Hazard Areas are an overlay that includes the 100 year floodplain and the mapped river corridors. New development is limited in these areas.

1 New zoning regulations should encourage efficient development that makes the most of small
2 areas with a compact organization of site elements. This is particularly important in areas where
3 commercial and industrial development will be encouraged. Retaining rural character, and
4 preventing inefficient strip development will be important goals.

5 Areas for Review

6 In addition to implementing zoning recommendations of the East Montpelier Village Master
7 Plan, zoning updates should also examine some areas where inconsistencies exist along
8 boundaries with other towns.

- 9 • **Barre Town:** East Montpelier's industrial district along the east side of US 2 abuts about
10 one mile of the northeast corner of Barre Town. A closed and capped landfill and an
11 operating regional solid-waste transfer facility occupy most of the industrial zone
12 adjacent to the Barre Town boundary. The adjoining Barre Town land is zoned for low-
13 density residential use and presently is primarily forest and agricultural land. Barre Town
14 has identified these adjacent lands as supporting a deer wintering range and other
15 natural/fragile areas. Proximity to these natural resources could be a limiting factor in
16 any further industrial development along this boundary.
- 17 • **Calais:** Adamant, which is one of Calais' four villages, is on the border with East
18 Montpelier. East Montpelier residents on Center Road near Adamant consider
19 themselves to be part of the Adamant community. Calais' efforts to strengthen and
20 maintain Adamant's character benefit adjoining areas in East Montpelier. Similarly,
21 North Montpelier is located on the boundary with Calais (Shoreland District) and near the
22 boundary with Marshfield (Agriculture/Rural Residential District). East Montpelier's
23 efforts to strengthen and maintain North Montpelier would affect those communities.
24 Communication between the towns, particularly about potential plans to increase growth
25 in these villages, is important.
- 26 • **Marshfield:** East Montpelier zoning in the vicinity of North Montpelier is Residential/
27 Commercial. Adjoining areas of Marshfield are zoned Agriculture/Rural Residential.
28 Communication between the towns, particularly about potential plans to increase growth
29 in North Montpelier, is important.
- 30 • **Montpelier:** Most adjoining areas of Montpelier are currently zoned Low Density
31 Residential, with the exception of the area near Gallison Hill Road and U-32, which are
32 zoned Medium Density Residential. The adjoining areas in East Montpelier are zoned
33 Rural Residential/Agricultural. East Montpelier has identified the Gallison Hill area as a
34 possible growth area. Increased development in this area would be compatible with
35 development in neighboring Montpelier. U-32 is served by Montpelier's water and sewer
36 systems. If East Montpelier were able to arrange for an extension of these services along
37 Gallison Hill, then additional development density consistent with adjacent Montpelier
38 would be possible.
- 39 • **Plainfield:** US 2 from East Montpelier into Plainfield is one of the gateways into
40 Plainfield. East Montpelier has zoned this area as Commercial. Plainfield has zoned this
41 area for Rural Residential and Forest/Agriculture. In both towns, much of this area is in
42 the floodplain, which limits potential development. East Montpelier should re-evaluate

its zoning in this area to be more consistent with the neighboring community and what is actually feasible in the floodplain.

Energy Planning and Siting

Meeting energy goals (see Energy and Energy Conservation) requires emphasizing land use patterns that concentrates populations into villages and growth centers in order to encourage walkability, bicycling, and the use of public transportation. Reducing strip development and protecting large blocks of forestland are also important to meeting energy goals.

The Draft East Montpelier Energy Plan identifies areas where renewable energy projects are preferred, especially larger solar projects; areas where they may be permitted under certain conditions; and a few areas where there would be strict limits on any renewable energy generation projects, except those that serve individual homes and businesses. Preferred areas include the Casella capped landfill, some portions of the Packard Industrial Park and some portions of the current Commercial zone. Other locations, including defined villages and scenic areas, have restrictions for certain types of energy development.

Goals and Actions

➤ **Goal 10.1:** Ensure that land use patterns retain the values expressed by citizens, including rural development patterns, protection of agricultural land and open space, and the enhancement of East Montpelier's villages.

✓ **Action 10.1.1:** Review and update East Montpelier's zoning districts to ensure that the boundaries, purposes and standards are appropriate to meet the goals of the Town Plan.

✓ **Action 10.1.2:** Review and update the site plan review, parking, design and screening standards in the *Land Use and Development Regulations*.

✓ **Action 10.1.3:** Update the *Land Use and Development Regulations* to make it easier to permit Planned Unit Developments.

✓ **Action 10.1.4:** Develop zoning regulations that encourage new developments to reflect historic landscape patterns, such as compact development, a close and positive relationship to the street, and orientation of building and structures parallel or perpendicular to the road and other structures.

✓ **Action 10.1.5:** Include resource protection policies in the *Land Use and Development Regulations*.

✓ **Action 10.1.6:** Protect riparian forests through conservation easements and the *Land Use and Development Regulations*

➤ **Goal 10.2:** Focus new development in villages and growth areas.

❖ **Policy 10.2:** *The East Montpelier Village Master Plan (2017) is incorporated into this Town Plan by reference.*

- 1 ✓ **Action 10.2.1:** Adopt village zoning to implement the *East Montpelier Village Master*
2 *Plan*.
- 3 ✓ **Action 10.2.2:** Evaluate the potential for a village zone in North Montpelier.
- 4 ✓ **Action 10.2.3:** Evaluate the potential for growth in the Gallison Hill area.
- 5 ✓ **Action 10.2.4:** Ensure that village properties under town control are developed in a
6 manner consistent with the goals of the *East Montpelier Village Master Plan*.
- 7 ➤ **Goal 10.3:** Discourage commercial strip development.
- 8 ✓ **Action 10.3.1:** Update zoning bylaws to prevent strip development.
- 9 ➤ **Goal 10.4:** Encourage development of the Industrial District.
- 10 ✓ **Action 10.4.1:** Update zoning bylaws to ensure that the boundaries, purposes and
11 standards are appropriate to achieve the goals of the Town Plan.
- 12 ➤ **Goal 10.5:** Focus conservation efforts in areas with the highest resource values.
- 13 ✓ **Action 10.5.1:** Prioritize areas that would benefit from conservation and identify areas
14 where conservation should not occur.
- 15 ✓ **Action 10.5.2:** Consider how conservation projects contribute to accomplishing other
16 town goals, such as recreation, housing or renewable energy generation, when evaluating
17 support from the town's Conservation Fund.
- 18 ➤ **Goal 10.6:** Promote energy-efficient land use patterns that facilitate walking, bicycling and
19 use of public transportation.
- 20 This goal cuts across other areas. See actions for Transportation (6.2.1, 6.2.2, 6.2.3) and
21 Housing (8.1.1).
- 22

Chapter 11

IMPLEMENTATION

The preceding chapters discuss a range of topics, providing a historical context, summarizing current conditions, identifying issues and opportunities, and establishing goals, policies and actions. Making the plan's vision a reality requires that the actions be implemented.

With over 115 identified actions it is important to identify priorities, assign responsibility, identify where funding or investment is needed, and a timeframe for action. This chapter organizes this information to help facilitate implementation.

Priorities range from moderate to high to top priority, based on the Planning Commission best judgment. **Top priorities are shown in bold text.** Seven actions are rated as top priorities. 50 actions are high priorities. 62 actions are moderate priorities.

One or more official, board, or other body is identified as the entity responsible for implementing the action. Many actions have multiple responsible entities, highlighting the need for coordination and cooperation.

Many actions can be implemented in the course of regular town business. Some actions, however, will require funding or investment. To the extent that they can be anticipated, actions requiring additional funding resources are identified in the Resources column. This will help in identifying where grant funding should be sought, or where operating or capital funds should be budgeted.

Timelines vary from ongoing to specific timeframes. Where actions require funding, the timeline is dependent on obtaining the necessary resources. For example, the Planning Commission has obtained a municipal planning grant from the state to undertake an update of the town's *Land Use and Development Regulations*, so a specific timeline for the relevant actions is readily anticipated.

Although this plan presents a 10-20 year vision for the town, the plan itself has an 8-year statutory life. The plan should be reviewed periodically over the 8 years, to evaluate whether progress is being made and to re-evaluate conditions, goals, actions or priorities. As actions are accomplished, other actions will move up in priority. Similarly, a change in conditions or new state requirements may require reprioritization. Major changes in conditions may require that the plan be amended; an amendment is anticipated when the Town Energy Plan is completed.

As a small town with relatively few employees, East Montpelier runs on the efforts and dedication of the many residents who serve on boards and committees, participate in local organizations that contribute to town life, and volunteer to help make community events a success. This civic spirit helps make East Montpelier a special place to live and work, now and in the future.

1

Goals and Actions	Priority	Responsibility*	Resources	Timeline
EAST MONTPELIER AND THE REGION				
➤ Goal 2.1: Participate in regional organizations and activities.				
✓ Action 2.1.1: Maintain active representation on, and participation in, boards and commissions of regional organizations.	Moderate	SB, appointed representatives		ongoing
➤ Goal 2.2: Cooperate with neighboring communities to ensure plan compatibility, as well as mutual opportunities and challenges.				
✓ Action 2.2.1: Consult with planning officials of adjacent towns to identify and resolve potential conflicts and to address opportunities for cooperation.	High	PC		ongoing
TOWN GOVERNMENT AND FINANCE				
➤ Goal 3.1: Ensure that town government effectively represents the interests of townspeople.				
✓ Action 3.1.1: Encourage residents to participate in town government and activities.	Moderate	SB		ongoing
✓ Action 3.1.2: Maintain regular communication among town officials, committees, and the public.	Moderate	TA, SB, TC		ongoing
➤ Goal 3.2: Ensure that town government responds to the increased complexity of the issues it faces.				
✓ Action 3.2.1: Evaluate the evolving requirements of local government and the most appropriate structure of staffing to meet these needs.	Moderate	SB, TA, ChC		ongoing
➤ Goal 3.3: Maintain and improve core municipal facilities and services in a fiscally responsible and sustainable manner.				
✓ Action 3.3.1: Utilize the capital plan and budget process to ensure that on-going and proposed capital projects are appropriately planned and financed.	Moderate	CIC, SB		ongoing
✓ Action 3.3.2: Pursue relevant grant opportunities to assist with funding needed town projects.	Moderate	TA, SB, other committees		ongoing
*KEY: CC: Cemetery Commission; ChC: Charter Committee; CFAC: Conservation Fund Advisory Committee; CIC: Capitol Improvement Committee; CVEDC: Central Vermont Economic Development Corp.; CVRPC: Central Vermont Regional Planning Commission; DRB: Development Review Board; EC: Energy Committee; EMFD: East Montpelier Fire Department; EMHS: East Montpelier Historical Society; EMSLI: East Montpelier Senior Living Initiative; OLFP: Old LaPerle Farm Property Committee; PC: Planning Commission; RB: Recreation Board; RF: Road Foreman; SB: Selectboard; TA: Town Administrator; TC: Town Clerk; TFC: Town Forest Committee; TSO: Town Service Officer; TW: Tree Warden; VC: Village Committee; VHCB: Vermont Housing & Conservation Board; VLT: Vermont Land Trust; VTrans: Vermont Agency of Transportation; ZA: Zoning Administrator				

Goals and Actions	Priority	Responsibility*	Resources	Timeline
COMMUNITY RESOURCES				
➤ Goal 4.1: Promote a sense of community through educational and social opportunities and gathering places.				
✓ Action 4.1.1: Provide information on town activities and how residents can participate.	Moderate	TA, TC, SB, other committees		ongoing
✓ Action 4.1.2: Support use of the <i>East Montpelier Signpost</i> and Front Porch Forum to inform residents about community events, issues, resources and townspeople.	Moderate	TA, TC, SB, other committees		ongoing
✓ Action 4.1.3: Organize periodic community-wide events to provide information and encourage discussion on topics relevant to the town, or to showcase community resources.	Moderate	PC, SB, other committees		ongoing
➤ Goal 4.2: Keep the Town Offices in East Montpelier Village.				
✓ Action 4.2.1: If a new Town Office building is needed, it should be located in East Montpelier Village.	High	SB		ongoing
➤ Goal 4.3: Maintain and improve the overall health and wellbeing of East Montpelier residents.				
See actions for: <u>Community Resources</u> (4.1.1, 4.1.2, 4.1.3, 4.4.1, 4.5.1, 4.5.2, 4.7.1, 4.7.2, 4.11.1); <u>Public Services</u> (5.1.1, 5.2.1, 5.3.1, 5.3.2, 5.4.1, 5.4.2); <u>Infrastructure</u> (6.2.1, 6.2.2, 6.2.3, 6.3.1, 6.7.1, 6.8.3, 6.14.1); <u>Economic Development</u> (7.4.1,); <u>Housing</u> (8.1.1, 8.1.2, 8.1.3); <u>Natural and Scenic Resources</u> (9.9.1, 9.9.2, 9.10.1).				
➤ Goal 4.4: Provide year-round programs of varied recreational activities to meet the interests and needs of residents of all ages and skills.				
✓ Action 4.4.1: Create a plan for meeting the demand for recreational activities for all ages.	Moderate	RB		ongoing
➤ Goal 4.5: Protect recreational spaces and develop new recreational areas in various parts of town.				
✓ Action 4.5.1: Maintain and improve existing recreational facilities near the Elementary School.	Moderate	RB, SB		ongoing
<p>*KEY: CC: Cemetery Commission; ChC: Charter Committee; CFAC: Conservation Fund Advisory Committee; CIC: Capitol Improvement Committee; CVEDC: Central Vermont Economic Development Corp.; CVRPC: Central Vermont Regional Planning Commission; DRB: Development Review Board; EC: Energy Committee; EMFD: East Montpelier Fire Department; EMHS: East Montpelier Historical Society; EMSLI: East Montpelier Senior Living Initiative; OLFPC: Old LaPerle Farm Property Committee; PC: Planning Commission; RB: Recreation Board; RF: Road Foreman; SB: Selectboard; TA: Town Administrator; TC: Town Clerk; TFC: Town Forest Committee; TSO: Town Service Officer; TW: Tree Warden; VC: Village Committee; VHCB: Vermont Housing & Conservation Board; VLT: Vermont Land Trust; VTrans: Vermont Agency of Transportation; ZA: Zoning Administrator</p>				

Goals and Actions	Priority	Responsibility*	Resources	Timeline
✓ Action 4.5.2: Develop a trail along the Winooski River in East Montpelier Village.	Moderate	RB, SB, VC	Funding for access, design, construction	ongoing
✓ Action 4.5.3: Develop a plan for the Old LaPerle Farm property that includes recreational uses.	Moderate	OLFPC, SB		2018-2020
➤ Goal 4.6: Maintain a proactive and supportive relationship between the town, trail user groups, and landowners.				
✓ Action 4.6.1: Support efforts to locate off-road segments of the Cross Vermont Trail in East Montpelier.	Moderate	SB, EM Trails, Cross VT Trail		ongoing
➤ Goal 4.7: Maintain and expand the existing trail system to create connected loops and links to villages and population centers.				
✓ Action 4.7.1: Maintain existing trails and support completion of planned trail segments.	Moderate	EM Trails, SB		ongoing
✓ Action 4.7.2: Consider new trail links to connect villages and East Montpelier Elementary School with the trail system.	Moderate	EM Trails, SB		ongoing
➤ Goal 4.8: Provide sufficient access and parking for trail resources in town.				
✓ Action 4.8.1: Provide sufficient safe parking off the traveled roadway and educate trail users on safe parking practices.	Moderate	EM Trails, SB		ongoing
➤ Goal 4.9: Preserve the town's historic structures and cemeteries for future generations to enjoy.				
✓ Action 4.9.1: Ensure <i>Land Use and Development Regulations</i> and other actions by the town protect historic structures and settlement patterns.	High	PC, SB		2018 and ongoing
✓ Action 4.9.2: Consider conducting an inventory of historic barns, outbuildings and other agricultural structures in East Montpelier.	Moderate	PC, SB	Possible funding for assistance	2020
*KEY: CC: Cemetery Commission; ChC: Charter Committee; CFAC: Conservation Fund Advisory Committee; CIC: Capitol Improvement Committee; CVEDC: Central Vermont Economic Development Corp.; CVRPC: Central Vermont Regional Planning Commission; DRB: Development Review Board; EC: Energy Committee; EMFD: East Montpelier Fire Department; EMHS: East Montpelier Historical Society; EMSLI: East Montpelier Senior Living Initiative; OLFPC: Old LaPerle Farm Property Committee; PC: Planning Commission; RB: Recreation Board; RF: Road Foreman; SB: Selectboard; TA: Town Administrator; TC: Town Clerk; TFC: Town Forest Committee; TSO: Town Service Officer; TW: Tree Warden; VC: Village Committee; VHCB: Vermont Housing & Conservation Board; VLT: Vermont Land Trust; VTrans: Vermont Agency of Transportation; ZA: Zoning Administrator				

Goals and Actions	Priority	Responsibility*	Resources	Timeline
✓ Action 4.9.3: Assist property owners who wish to apply for listing on the national or state Register of Historic Places.	Moderate	TA		ongoing
✓ Action 4.9.4: Encourage property owners within the designated Village Center to take advantage of available tax credits for improvements to historic buildings.	Moderate	TA, CVEDC		ongoing
✓ Action 4.9.5: Continue to maintain all public cemeteries, along with reasonable maintenance of old family burial grounds.	Moderate	CC		ongoing
➤ Goal 4.10: Maintain the town's historic landscape patterns to serve as a model for future development.				
See action for <u>Land Use</u> (10.1.4).				
➤ Goal 4.11: Enable residents of all ages to learn about and appreciate the town's history.				
✓ Action 4.11.1: Provide programs and information about the town's history and historic resources to a range of audiences, including youth and adults.	Moderate	EMHS, Schools		ongoing
➤ Goal 4.12: Preserve historical documents and artifacts.				
✓ Action 4.12.1: Provide appropriate storage space for the preservation of town records and historical collections.	Moderate	TC, EMHS		ongoing
PUBLIC SERVICES				
➤ Goal 5.1: Provide for supportive and stimulating schools that promote learning.				
✓ Action 5.1.1: Motivate each student to enjoy learning and experience academic and social success, while instilling respect for the rights of others.	High	Schools		ongoing
✓ Action 5.1.2: Plan for facility maintenance and future improvements through the school district's capital budgeting process.	High	Schools		ongoing
<p>*KEY: CC: Cemetery Commission; ChC: Charter Committee; CFAC: Conservation Fund Advisory Committee; CIC: Capitol Improvement Committee; CVEDC: Central Vermont Economic Development Corp.; CVRPC: Central Vermont Regional Planning Commission; DRB: Development Review Board; EC: Energy Committee; EMFD: East Montpelier Fire Department; EMHS: East Montpelier Historical Society; EMSLI: East Montpelier Senior Living Initiative; OLFPC: Old LaPerle Farm Property Committee; PC: Planning Commission; RB: Recreation Board; RF: Road Foreman; SB: Selectboard; TA: Town Administrator; TC: Town Clerk; TFC: Town Forest Committee; TSO: Town Service Officer; TW: Tree Warden; VC: Village Committee; VHCB: Vermont Housing & Conservation Board; VLT: Vermont Land Trust; VTrans: Vermont Agency of Transportation; ZA: Zoning Administrator</p>				

Goals and Actions	Priority	Responsibility*	Resources	Timeline
➤ Goal 5.2: Encourage community participation in the schools.				
✓ Action 5.2.1: Promote the use of school facilities for adult education and community use.	Moderate	Schools		ongoing
➤ Goal 5.3: Support services and facilities to address the needs for seniors and families with young children.				
✓ Action 5.3.1: Support the location of a senior center in East Montpelier Village.	Moderate	SB		ongoing
See actions for <u>Housing</u> (8.1.1, 8.1.2, 8.1.3).				
➤ Goal 5.4: Promote formal and informal social support services.				
✓ Action 5.4.1: Post current information about existing social services.	Moderate	TSO, TA		ongoing
✓ Action 5.4.2: Maintain a list of contacts to neighborhood groups.	Moderate	TSO, TA		ongoing
➤ Goal 5.5: Maintain adequate fire and emergency response capabilities.				
✓ Action 5.5.1: Work with EMFD to assure the reliable and cost-effective delivery of fire and EMS services.	High	SB		ongoing
✓ Action 5.5.2: Expand water supplies for fire fighting, especially in East Montpelier Village.	High	SB, EMFD		ongoing
➤ Goal 5.6: Maintain an effective Local Emergency Operations Plan.				
✓ Action 5.6.1: Ensure that the Local Emergency Operations Plan and other emergency planning documents remain current.	High	TA, SB		ongoing
✓ Action 5.6.2: Ensure that key emergency officials receive appropriate emergency and incident command training.	High	TA, SB		ongoing
➤ Goal 5.7: Promote emergency awareness and fire prevention.				
✓ Action 5.7.1: Promote and provide fire prevention information and education throughout the community.	Moderate	EMFD		ongoing
<p>*KEY: CC: Cemetery Commission; ChC: Charter Committee; CFAC: Conservation Fund Advisory Committee; CIC: Capitol Improvement Committee; CVEDC: Central Vermont Economic Development Corp.; CVRPC: Central Vermont Regional Planning Commission; DRB: Development Review Board; EC: Energy Committee; EMFD: East Montpelier Fire Department; EMHS: East Montpelier Historical Society; EMSLI: East Montpelier Senior Living Initiative; OLFPC: Old LaPerle Farm Property Committee; PC: Planning Commission; RB: Recreation Board; RF: Road Foreman; SB: Selectboard; TA: Town Administrator; TC: Town Clerk; TFC: Town Forest Committee; TSO: Town Service Officer; TW: Tree Warden; VC: Village Committee; VHCB: Vermont Housing & Conservation Board; VLT: Vermont Land Trust; VTrans: Vermont Agency of Transportation; ZA: Zoning Administrator</p>				

Goals and Actions	Priority	Responsibility*	Resources	Timeline
➤ Goal 5.8: Minimize potential damage from natural disasters and strengthen the community's ability to anticipate, respond to, and recover from natural disasters.				
❖ Policy 5.8: <i>East Montpelier's Hazard Mitigation Plan (2013 or subsequently adopted plan) is incorporated into this town plan by reference.</i>				
✓ Action 5.8.1: Implement the projects identified in the <i>Hazard Mitigation Plan</i> .	High	SB, RF		ongoing
✓ Action 5.8.2: Implement the plans and projects for the Municipal General Roads permit.	High	SB, RF		ongoing
✓ Action 5.8.3: Include funding for hazard mitigation projects in the town budget and Capital Improvement Plan.	High	CIC, SB		ongoing
✓ Action 5.8.4: Establish a standing Town Emergency Management Committee to maintain and coordinate implementation of the Hazard Mitigation Plan.	High	SB		2018 and ongoing
✓ Action 5.8.5: Ensure that residents and business owners are aware of natural hazards and ways to protect themselves and insure their property.	Moderate	SB		ongoing
See action for <u>Natural and Scenic Resources</u> (9.3.1).				
INFRASTRUCTURE				
➤ Goal 6.1: Manage road network cost effectively.				
❖ Policy 6.1.1: <i>Accept new town roads only in accordance with East Montpelier Road Policies.</i>				
➤ Goal 6.2: Ensure that the road network provides safe and adequate transportation for all road users, balanced with retaining the scenic and natural character of roadways.				
✓ Action 6.2.1: Ensure that all state transportation projects meet the goals of this plan, including accommodating pedestrian and bicycle use and protecting the character of the roadside.	High	SB, TA, VC, VTrans		ongong
<p>*KEY: CC: Cemetery Commission; ChC: Charter Committee; CFAC: Conservation Fund Advisory Committee; CIC: Capitol Improvement Committee; CVEDC: Central Vermont Economic Development Corp.; CVRPC: Central Vermont Regional Planning Commission; DRB: Development Review Board; EC: Energy Committee; EMFD: East Montpelier Fire Department; EMHS: East Montpelier Historical Society; EMSLI: East Montpelier Senior Living Initiative; OLFPC: Old LaPerle Farm Property Committee; PC: Planning Commission; RB: Recreation Board; RF: Road Foreman; SB: Selectboard; TA: Town Administrator; TC: Town Clerk; TFC: Town Forest Committee; TSO: Town Service Officer; TW: Tree Warden; VC: Village Committee; VHCB: Vermont Housing & Conservation Board; VLT: Vermont Land Trust; VTrans: Vermont Agency of Transportation; ZA: Zoning Administrator</p>				

Goals and Actions	Priority	Responsibility*	Resources	Timeline
✓ Action 6.2.2: Provide safe, attractive and convenient pedestrian and bicycle facilities in East Montpelier Village. Priorities are sidewalks and bicycle lanes connecting the Upper Village to the Lower Village, and the Lower Village to East Montpelier Elementary School.	High	SB, CIC, VC	Funding for study, design and construction	2018 and ongoing
✓ Action 6.2.3: Provide marked bicycle lanes with all new paving projects.	Moderate	SB		
✓ Action 6.2.4: Improve safety and reduce traffic speeds at the Towne Hill and Gallison Hill Road intersection.	High	SB, CVRPC	Funding for design and construction	2018-2020
✓ Action 6.2.5: Protect roadside trees and plant additional trees where appropriate.	Moderate	RF, TW		ongoing
✓ Action 6.2.6: Notify the public and allow public comment prior to significantly changing the character of any road through widening, cutting of live trees within the public right-of-way, or paving.	Moderate	SB, RF, TW		ongoing
➤ Goal 6.3: Reduce traffic speeds and improve safety in villages and areas with pedestrians and bicyclists.				
✓ Action 6.3.1: Implement traffic calming measures in villages and areas with pedestrians and bicyclists.	Moderate	PC, SB, CVRPC, VTrans	Possible funding for study, design and construction	2018 and ongoing
➤ Goal 6.4: Encourage shared road access to minimize highway congestion and strip development.				
❖ Policy 6.4.1: <i>Minimize new curb cuts whenever possible.</i>				
✓ Action 6.4.2: Update <i>Land Use and Development Regulations</i> to encourage shared road access.	Moderate	PC, SB		2018 -2020
➤ Goal 6.5: Support use of public transit and ridesharing.				
✓ Action 6.5.1: Support expanded public transportation availability and frequency.	High	SB, GMT		ongoing
<p>*KEY: CC: Cemetery Commission; ChC: Charter Committee; CFAC: Conservation Fund Advisory Committee; CIC: Capitol Improvement Committee; CVEDC: Central Vermont Economic Development Corp.; CVRPC: Central Vermont Regional Planning Commission; DRB: Development Review Board; EC: Energy Committee; EMFD: East Montpelier Fire Department; EMHS: East Montpelier Historical Society; EMSLI: East Montpelier Senior Living Initiative; OLFPC: Old LaPerle Farm Property Committee; PC: Planning Commission; RB: Recreation Board; RF: Road Foreman; SB: Selectboard; TA: Town Administrator; TC: Town Clerk; TFC: Town Forest Committee; TSO: Town Service Officer; TW: Tree Warden; VC: Village Committee; VHCB: Vermont Housing & Conservation Board; VLT: Vermont Land Trust; VTrans: Vermont Agency of Transportation; ZA: Zoning Administrator</p>				

Goals and Actions	Priority	Responsibility*	Resources	Timeline
✓ Action 6.5.2: Expand opportunities for carpooling and park and ride facilities.	High	PC, SB	Funding for study, design, construction	2019 and ongoing
➤ Goal 6.6: Encourage use of renewable fuels for transportation.				
✓ Action 6.6.1: Encourage installation of electric vehicle charging stations at businesses and public parking areas.	High	SB		ongoing
➤ Goal 6.7: Maintain roads to minimize the spread of invasive species and reduce stormwater runoff into streams.				
✓ Action 6.7.1: Promote individual and neighborhood actions to remove roadside invasive plants through information and education.	Moderate	SB		ongoing
✓ Action 6.7.2: Maintain roads in a manner that reduces storm water runoff and retains roadside vegetation.	High	SB, RF		ongoing
➤ Goal 6.8: Minimize and manage solid waste in collaboration with the Central Vermont Solid Waste Management District (CVSWMD).				
✓ Action 6.8.1: Enforce local ordinances regulating burning, dumping, storage and other disposal of solid waste in order to protect the health and safety of the community.	Moderate	SB, ZA		ongoing
✓ Action 6.8.2: Support Green-Up Day and Adopt-a-Site community efforts, and provide educational waste minimization programs.	Moderate	SB		ongoing
➤ Goal 6.9: Minimize waste generation in town government and the schools.				
✓ Action 6.9.1: Ensure that purchases and operations consider solid waste minimization throughout the lifecycle of projects and acquisitions.	Moderate	SB, schools		ongoing
<p>*KEY: CC: Cemetery Commission; ChC: Charter Committee; CFAC: Conservation Fund Advisory Committee; CIC: Capitol Improvement Committee; CVEDC: Central Vermont Economic Development Corp.; CVRPC: Central Vermont Regional Planning Commission; DRB: Development Review Board; EC: Energy Committee; EMFD: East Montpelier Fire Department; EMHS: East Montpelier Historical Society; EMSLI: East Montpelier Senior Living Initiative; OLFPC: Old LaPerle Farm Property Committee; PC: Planning Commission; RB: Recreation Board; RF: Road Foreman; SB: Selectboard; TA: Town Administrator; TC: Town Clerk; TFC: Town Forest Committee; TSO: Town Service Officer; TW: Tree Warden; VC: Village Committee; VHCB: Vermont Housing & Conservation Board; VLT: Vermont Land Trust; VTrans: Vermont Agency of Transportation; ZA: Zoning Administrator</p>				

Goals and Actions	Priority	Responsibility*	Resources	Timeline
➤ Goal 6.10: Develop wastewater solutions for East Montpelier Village and North Montpelier to support residences and businesses, protect water quality, and allow future growth.				
✓ Action 6.10.1: Develop a wastewater system suited to the development of the Old LaPerle Farm property in East Montpelier Village.	High	OLPFC, CIC, SB	Design, construction and operations funding	2018-2020
✓ Action 6.10.2: Support the development of distributed wastewater treatment systems in East Montpelier Village and North Montpelier suitable for supporting new residential and community-scaled business growth.	High	PC, DRB, CIC, SB	Design, construction and operations funding	ongoing
➤ Goal 6.11: Encourage proper operation and maintenance of individual on-site wastewater treatment systems.				
✓ Action 6.11.1: Provide information on proper operation and maintenance of on-site wastewater treatment systems.	Moderate	SB, TA		ongoing
➤ Goal 6.12: Adopt the East Montpelier Energy Plan.				
✓ Action 6.12.1: Complete the East Montpelier Energy Plan and incorporate it into the 2018 Town Plan by amendment.	Top	EC, PC, SB	CVRPC technical assistance	2018
➤ Goal 6.13: Promote energy conservation and efficiency.				
✓ Action 6.13.1: Publicize home weatherization and other energy conservation and efficiency programs to East Montpelier residents.	High	EC, ZA		ongoing
➤ Goal 6.14: Reduce use of fossil fuels in transportation.				
✓ Action 6.14.1: Develop a plan for reducing the use of fossil fuels in town vehicles.	Moderate	SB, RF		ongoing
✓ Action 6.14.2: Encourage schools to reduce single-student transportation.	Moderate	EC, Schools		ongoing
See actions for <u>Infrastructure</u> (6.2.1, 6.2.2, 6.2.3, 6.5.1, 6.5.2, 6.6.1).				
<p>*KEY: CC: Cemetery Commission; ChC: Charter Committee; CFAC: Conservation Fund Advisory Committee; CIC: Capitol Improvement Committee; CVEDC: Central Vermont Economic Development Corp.; CVRPC: Central Vermont Regional Planning Commission; DRB: Development Review Board; EC: Energy Committee; EMFD: East Montpelier Fire Department; EMHS: East Montpelier Historical Society; EMSLI: East Montpelier Senior Living Initiative; OLPFC: Old LaPerle Farm Property Committee; PC: Planning Commission; RB: Recreation Board; RF: Road Foreman; SB: Selectboard; TA: Town Administrator; TC: Town Clerk; TFC: Town Forest Committee; TSO: Town Service Officer; TW: Tree Warden; VC: Village Committee; VHCB: Vermont Housing & Conservation Board; VLT: Vermont Land Trust; VTrans: Vermont Agency of Transportation; ZA: Zoning Administrator</p>				

Goals and Actions	Priority	Responsibility*	Resources	Timeline
➤ Goal 6.15: Focus growth in villages and growth areas.				
See actions for <u>Land Use</u> (10.2.1, 10.2.2, 10.2.3).				
➤ Goal 6.16: Create guidelines for siting and design of new renewable energy development.				
✓ Action 6.16.1: Provide specific siting and design standards in the East Montpelier Energy Plan.	High	EC, PC		2018o
ECONOMIC DEVELOPMENT				
➤ Goal 7.1: Concentrate commercial growth in East Montpelier Village, with an emphasis on village-scale businesses that support the community and are compatible with residential uses.				
✓ Action 7.1.1: Encourage business retention and expansion, and the location of new village-scaled businesses, in village mixed use areas.	Moderate	TA, SB, current businesses, CVEDC		ongoing
✓ Action 7.1.2: Maintain Village Center designation for the historic village core and promote the associated benefits.	Moderate	TA, PC, SB, VC		2018 and ongoing
✓ Action 7.1.3: Evaluate the level of interest in, and benefits of, forming a non-profit entity to acquire and redevelop properties in the village as a way to preserve historic properties and spur economic development.	Moderate	PC, SB, VC	Funding for assistance	2019 and ongoing
See actions for <u>Infrastructure</u> (9.9.2); <u>Land Use</u> (10.2.1).				
➤ Goal 7.2: Encourage small, community-focused commercial enterprises in North Montpelier.				
✓ Action 7.2.1: Pursue funding and business assistance programs that support economic development in North Montpelier, including business recruitment, infrastructure needs and aesthetic enhancement.	High	SB, TA, CVEDC	Funding for assistance	2018 and ongoing
<p>*KEY: CC: Cemetery Commission; ChC: Charter Committee; CFAC: Conservation Fund Advisory Committee; CIC: Capitol Improvement Committee; CVEDC: Central Vermont Economic Development Corp.; CVRPC: Central Vermont Regional Planning Commission; DRB: Development Review Board; EC: Energy Committee; EMFD: East Montpelier Fire Department; EMHS: East Montpelier Historical Society; EMSLI: East Montpelier Senior Living Initiative; OLFPC: Old LaPerle Farm Property Committee; PC: Planning Commission; RB: Recreation Board; RF: Road Foreman; SB: Selectboard; TA: Town Administrator; TC: Town Clerk; TFC: Town Forest Committee; TSO: Town Service Officer; TW: Tree Warden; VC: Village Committee; VHCB: Vermont Housing & Conservation Board; VLT: Vermont Land Trust; VTrans: Vermont Agency of Transportation; ZA: Zoning Administrator</p>				

Goals and Actions	Priority	Responsibility*	Resources	Timeline
➤ Goal 7.3: Ensure zoning bylaws allow commercial and industrial business uses in appropriate locations.				
✓ Action 7.3.1: Review and update the East Montpelier Land Use and Development Regulations to ensure that commercial and industrial areas are appropriate and adequate to encourage appropriate business growth.	Top	PC, SB	Municipal Planning Grant	2018-2020
See action in Land Use (10.3.1).				
➤ Goal 7.4: Promote and support the viability of sustainable agricultural enterprises.				
✓ Action 7.4.1: Encourage local agricultural enterprises through non-regulatory techniques, such as hosting farmer's markets or fairs and providing information about local agricultural products.	Moderate	SB		ongoing
✓ Action 7.4.2: Ensure zoning bylaws support agricultural enterprises.	High	PC, SB	Municipal Planning Grant	2018-2020
➤ Goal 7.5: Support home businesses while ensuring that rural residential character is preserved.				
✓ Action 7.5.1: Promote the continued upgrade and expansion of high speed telecommunications throughout the town.	Moderate	SB		ongoing
HOUSING				
➤ Goal 8.1: Provide a range of housing opportunities, including single-family, multi-family, mixed use, affordable senior housing.				
✓ Action 8.1.1: Partner with other organizations to create affordable and senior housing near transportation and services.	High	SB, OLFPC, EMSLI, Habitat, Downstreet, VHCB	Possible grant funding	ongoing
✓ Action 8.1.2: Evaluate expanding the Conservation Fund to include affordable housing.	High	SB, CFAC		2018-2020
✓ Action 8.1.3: Promote and support home share programs as a way to support senior and affordable housing.	Moderate	SB, TA		ongoing
<p>*KEY: CC: Cemetery Commission; ChC: Charter Committee; CFAC: Conservation Fund Advisory Committee; CIC: Capitol Improvement Committee; CVEDC: Central Vermont Economic Development Corp.; CVRPC: Central Vermont Regional Planning Commission; DRB: Development Review Board; EC: Energy Committee; EMFD: East Montpelier Fire Department; EMHS: East Montpelier Historical Society; EMSLI: East Montpelier Senior Living Initiative; OLFPC: Old LaPerle Farm Property Committee; PC: Planning Commission; RB: Recreation Board; RF: Road Foreman; SB: Selectboard; TA: Town Administrator; TC: Town Clerk; TFC: Town Forest Committee; TSO: Town Service Officer; TW: Tree Warden; VC: Village Committee; VHCB: Vermont Housing & Conservation Board; VLT: Vermont Land Trust; VTrans: Vermont Agency of Transportation; ZA: Zoning Administrator</p>				

Goals and Actions	Priority	Responsibility*	Resources	Timeline
✓ Action 8.1.4: Consider conducting a housing needs assessment and developing a housing action plan for the town.	Moderate	PC, SB	Possible grant funding	2020-2022
➤ Goal 8.2: Concentrate new residential development in East Montpelier Village or an identified growth area.				
See action in <u>Land Use</u> (10.2.1).				
NATURAL AND SCENIC RESOURCES				
➤ Goal 9.1: Promote local actions to maintain air quality.				
See actions for <u>Infrastructure</u> (6.2.1, 6.2.2, 6.2.3, 6.3.1, 6.5.1, 6.5.2, 6.6.1, 6.13.1, 6.14.1, 6.14.2); <u>Economic Development</u> (7.1.1, 7.2.1), <u>Natural and Scenic Resources</u> (9.5.1), and <u>Land Use</u> (10.2.1, 10.2.2, 10.2.3).				
➤ Goal 9.2: Protect wetlands and waterways as valued wildlife habitat, and recreational and scenic focal points of the community.				
✓ Action 9.2.1: Consider use of the Conservation Fund for the purchase of important public access to wetlands and waterways.	High	LCAC, SB		2018 and ongoing
➤ Goal 9.3: Ensure <i>Land Use and Development Regulations</i> promote water quality protection.				
✓ Action 9.3.1: Review and update <i>Land Use and Development Regulations</i> to adopt of Low Impact Development (LID) techniques.	High	PC, SB	Municipal Planning Grant	2018-2022
➤ Goal 9.4: Support project development and implementation of projects that will improve water quality.				
✓ Action 9.4.1: Manage highway operations and implement projects to comply with the Municipal Roads General Permit.	High	SB, RF		2018 and ongoing
✓ Action 9.4.2: Implement roadside vegetation practices that reduce runoff and sedimentation.	High	SB, RF		2018 and ongoing
✓ Action 9.4.3: Pursue funding for project development and implementation of priority projects in the Kingsbury Branch Watershed Stormwater Master Plan.	High	SB, TA, RF, CVRPC	Funding for implementation	2018 and ongoing
<p>*KEY: CC: Cemetery Commission; ChC: Charter Committee; CFAC: Conservation Fund Advisory Committee; CIC: Capitol Improvement Committee; CVEDC: Central Vermont Economic Development Corp.; CVRPC: Central Vermont Regional Planning Commission; DRB: Development Review Board; EC: Energy Committee; EMFD: East Montpelier Fire Department; EMHS: East Montpelier Historical Society; EMSLI: East Montpelier Senior Living Initiative; OLFP: Old LaPerle Farm Property Committee; PC: Planning Commission; RB: Recreation Board; RF: Road Foreman; SB: Selectboard; TA: Town Administrator; TC: Town Clerk; TFC: Town Forest Committee; TSO: Town Service Officer; TW: Tree Warden; VC: Village Committee; VHCB: Vermont Housing & Conservation Board; VLT: Vermont Land Trust; VTrans: Vermont Agency of Transportation; ZA: Zoning Administrator</p>				

Goals and Actions	Priority	Responsibility*	Resources	Timeline
➤ Goal 9.5: Ensure that existing forest areas are managed for long-term sustainability.				
✓ Action 9.5.1: Work with landowners and conservation partners to conserve the town's most valued forestland.	Moderate	PC, TA, SB		ongoing
✓ Action 9.5.2: Provide education on invasive species and promote annual efforts to eradicate invasive plants.	Moderate	SB		ongoing
➤ Goal 9.6: Ensure that <i>Land Use and Development Regulations</i> promote forest integrity.				
✓ Action 9.6.1: Review and update <i>Land Use and Development Regulations</i> to promote retention of significant forestlands.	High	PC, SB	Municipal Planning Grant	2018-2020
➤ Goal 9.7: Manage town-owned forests for recreational, economic and wildlife values.				
✓ Action 9.7.1: Update and implement the Town Forest Management Plan, addressing thinning, harvesting, access rights, recreation and wildlife habitat.	Moderate	TFC, SB		2018 and ongoing
✓ Action 9.7.2: Install new signage at the Haggett Road entrance to the Town Forest.	Moderate	TFC, SB		2018 -2020
✓ Action 9.7.3: Evaluate the health and integrity of woody vegetation in road rights-of-way and identify areas in need of improved management.	Moderate	TW, RF		2018-2020
➤ Goal 9.8: Promote management of private forest lands for multiple uses and values.				
✓ Action 9.8.1: Provide workshops on stewardship and management of small woodlots.	Moderate	SB, TW, VT Woodlands Assoc.		2018--2020
✓ Action 9.8.2: Encourage use of local forest resources in municipal construction and development.	Moderate	SB		ongoing
<p>*KEY: CC: Cemetery Commission; ChC: Charter Committee; CFAC: Conservation Fund Advisory Committee; CIC: Capitol Improvement Committee; CVEDC: Central Vermont Economic Development Corp.; CVRPC: Central Vermont Regional Planning Commission; DRB: Development Review Board; EC: Energy Committee; EMFD: East Montpelier Fire Department; EMHS: East Montpelier Historical Society; EMSLI: East Montpelier Senior Living Initiative; OLFPC: Old LaPerle Farm Property Committee; PC: Planning Commission; RB: Recreation Board; RF: Road Foreman; SB: Selectboard; TA: Town Administrator; TC: Town Clerk; TFC: Town Forest Committee; TSO: Town Service Officer; TW: Tree Warden; VC: Village Committee; VHCB: Vermont Housing & Conservation Board; VLT: Vermont Land Trust; VTrans: Vermont Agency of Transportation; ZA: Zoning Administrator</p>				

Goals and Actions	Priority	Responsibility*	Resources	Timeline
➤ Goal 9.9: Ensure the availability of a sufficient and sustainable supply of clean water for residential, commercial and industrial uses.				
✓ Action 9.9.1: Evaluate where future public water supplies may be possible and appropriate to support development in villages and growth areas.	High	SB	Possible funding for assistance	2018 and ongoing
✓ Action 9.9.2: Ensure that the water supply system for East Montpelier Village acquires sufficient capacity to serve current and future customers and meets firefighting needs.	Top	SB, CIC	Capital and operations funding	ongoing
➤ Goal 9.10: Safeguard the quality and quantity of the town's groundwater.				
✓ Action 9.10.1: Ensure that groundwater withdrawals do not harm the citizens, existing uses, water systems or ecosystems of East Montpelier.	High	DRB, SB		ongoing
➤ Goal 9.11: Any new or expanded earth resources extraction operations will be developed to minimize impacts on the environment and community.				
❖ Policy 9.11: <i>Earth resource extraction facilities shall not be located within villages or defined growth areas.</i>				
✓ Action 9.11.1: Review and update the <i>Land Use and Development Regulations</i> to ensure that development conditions address scale, screening, truck traffic, forest and riparian habitat protection, and scenic resource protection.	Moderate	PC, SB		2020-2022
➤ Goal 9.12: Support a diverse agricultural community.				
✓ Action 9.12.1: Consider provisions in the <i>Land Use and Development Regulations</i> that accommodate agricultural enterprises, such as tourism and events, farm stands, sales of value-added products, or recreation.	High	PC, SB	Municipal Planning Grant	2018-2020
✓ Action 9.12.2: Ensure that subdivision, access and rights of way preserve the viability of productive farmland.	High	PC, SB	Municipal Planning Grant	2018-2020
<p>*KEY: CC: Cemetery Commission; ChC: Charter Committee; CFAC: Conservation Fund Advisory Committee; CIC: Capitol Improvement Committee; CVEDC: Central Vermont Economic Development Corp.; CVRPC: Central Vermont Regional Planning Commission; DRB: Development Review Board; EC: Energy Committee; EMFD: East Montpelier Fire Department; EMHS: East Montpelier Historical Society; EMSLI: East Montpelier Senior Living Initiative; OLFPC: Old LaPerle Farm Property Committee; PC: Planning Commission; RB: Recreation Board; RF: Road Foreman; SB: Selectboard; TA: Town Administrator; TC: Town Clerk; TFC: Town Forest Committee; TSO: Town Service Officer; TW: Tree Warden; VC: Village Committee; VHCB: Vermont Housing & Conservation Board; VLT: Vermont Land Trust; VTrans: Vermont Agency of Transportation; ZA: Zoning Administrator</p>				

Goals and Actions	Priority	Responsibility*	Resources	Timeline
✓ Action 9.12.3: Showcase local agricultural products at town events.	Moderate	??		ongoing
➤ Goal 9.13: Encourage farming practices that protect wildlife habitat, water quality and soil productivity.				
✓ Action 9.13.1: Ensure land conservation includes appropriate stream and roadside buffers to minimize agricultural run-off.	Moderate	CFAC, SB, VLTt		ongoing
✓ Action 9.13.2: Promote productive field cutting schedules to allow young ground nesting birds, such as bobolinks, to leave their nests.	Moderate	??		ongoing
➤ Goal 9.14: Support the conservation of prime and actively used farmland outside of village and growth areas.				
✓ Action 9.14.1: Coordinate conservation efforts with landowners and conservation organizations to ensure that town goals are met.	High	CFAC, PC, SB, VLT, VHCB		ongoing
✓ Action 9.14.2: Support farmland conservation that meets town goals through the Conservation Fund.	High	CFAC, PC, SB		ongoing
➤ Goal 9.15: Protect East Montpelier's significant views.				
❖ Policy 9.15: <i>Development within identified significant viewsheds shall not unduly detract from identified scenic values within the viewshed. Particular attention shall be focused on development within the foreground (within ½ mile) of the viewpoint. Development siting shall employ all reasonable siting and design techniques to minimize impacts on views, including, but not limited to: siting development at the edge of views; using natural vegetation and/or topography to screen prominent or discordant elements of development, such as parking, storage and private utility structures; limiting the size and scale of structures; and using Planned Unit Development to maintain compact patterns that do not encroach on viewsheds.</i>				
✓ Action 9.15.1: Land conservation efforts should include protecting identified scenic viewsheds, especially foreground areas.	High	CFAC, PC, SB, VHCB, VLT		ongoing
<p>*KEY: CC: Cemetery Commission; ChC: Charter Committee; CFAC: Conservation Fund Advisory Committee; CIC: Capitol Improvement Committee; CVEDC: Central Vermont Economic Development Corp.; CVRPC: Central Vermont Regional Planning Commission; DRB: Development Review Board; EC: Energy Committee; EMFD: East Montpelier Fire Department; EMHS: East Montpelier Historical Society; EMSLI: East Montpelier Senior Living Initiative; OLFPC: Old LaPerle Farm Property Committee; PC: Planning Commission; RB: Recreation Board; RF: Road Foreman; SB: Selectboard; TA: Town Administrator; TC: Town Clerk; TFC: Town Forest Committee; TSO: Town Service Officer; TW: Tree Warden; VC: Village Committee; VHCB: Vermont Housing & Conservation Board; VLT: Vermont Land Trust; VTrans: Vermont Agency of Transportation; ZA: Zoning Administrator</p>				

Goals and Actions	Priority	Responsibility*	Resources	Timeline
✓ Action 9.15.2: Provide guidance in the <i>Land Use and Development Regulations</i> for protecting characteristic scenic resources throughout town with particular attention to identified scenic views.	High	PC, SB	Municipal Planning Grant	2018-2020
➤ Goal 9.16: Retain the scenic rural character of town roadways.				
✓ Action 9.16.1: Develop and implement road maintenance policies that minimize road widths and retain roadside vegetation, particularly along identified scenic roadways.	Moderate	TW, RF, SB		ongoing
✓ Action 9.16.2: Ensure <i>Land Use and Development Regulations</i> encourage compact development that protects scenic and natural resources.	High	PC, SB	Municipal Planning Grant	2018-2020
LAND USE				
➤ Goal 10.1: Ensure that land use patterns retain the values expressed by citizens, including rural development patterns, protection of agricultural land and open space, and the enhancement of East Montpelier's villages.				
✓ Action 10.1.1: Review and update East Montpelier's zoning districts to ensure that the boundaries, purposes and standards are appropriate to meet the goals of the Town Plan.	Top	PC, SB	Municipal Planning Grant	2018-2020
✓ Action 10.1.2: Review and update site plan review, parking and design standards in the land development regulations.	Top	PC, SB	Municipal Planning Grant	2018-2019
✓ Action 10.1.3: Update the <i>Land Use and Development Regulations</i> to make it easier to permit Planned Unit Developments.	Top	PC, SB	Municipal Planning Grant	2018-2019
<p>*KEY: CC: Cemetery Commission; ChC: Charter Committee; CFAC: Conservation Fund Advisory Committee; CIC: Capitol Improvement Committee; CVEDC: Central Vermont Economic Development Corp.; CVRPC: Central Vermont Regional Planning Commission; DRB: Development Review Board; EC: Energy Committee; EMFD: East Montpelier Fire Department; EMHS: East Montpelier Historical Society; EMSLI: East Montpelier Senior Living Initiative; OLFP: Old LaPerle Farm Property Committee; PC: Planning Commission; RB: Recreation Board; RF: Road Foreman; SB: Selectboard; TA: Town Administrator; TC: Town Clerk; TFC: Town Forest Committee; TSO: Town Service Officer; TW: Tree Warden; VC: Village Committee; VHCB: Vermont Housing & Conservation Board; VLT: Vermont Land Trust; VTrans: Vermont Agency of Transportation; ZA: Zoning Administrator</p>				

Goals and Actions	Priority	Responsibility*	Resources	Timeline
✓ Action 10.1.4: Develop zoning regulations that encourage new developments to reflect historic landscape patterns, such as compact development, a close and positive relationship to the street, and orientation of buildings and structures parallel or perpendicular to the road and other structures.	High	PC, SB	Municipal Planning Grant	2018-2020
✓ Action 10.1.5: Include resource protection policies in the <i>Land Use and Development Regulations</i> .	High	PC, SB	Municipal Planning Grant	2018-2020
✓ Action 10.1.6: Protect riparian forests through conservation easements and <i>Land Use and Development Regulations</i> .	High	PC, SB, DRB	Municipal Planning Grant	2018-2020 and ongoing
➤ Goal 10.2: Focus new development in villages and growth areas.				
❖ Policy 10. 2: <i>The East Montpelier Village Master Plan (2017) is incorporated into this Town Plan by reference.</i>				
✓ Action 10.2.1: Adopt village zoning to implement the <i>East Montpelier Village Master Plan</i> .	Top	PC, SB	Municipal Planning Grant	2018-2019
✓ Action 10.2.2: Evaluate the potential for a village zone in North Montpelier.	High	PC, SB	Funding for planning assistance	2020-2022
✓ Action 10.2.3: Evaluate the potential for growth in the Gallison Hill area.	High	PC, SB	Funding for planning assistance	2020-2022
✓ Action 10.2.4: Ensure that village properties under town control are developed in a manner consistent with the goals of the <i>East Montpelier Village Master Plan</i> .	High	OLFPC, SB, VC, DRB		2018 and ongoing
➤ Goal 10.3: Discourage commercial strip development.				
✓ Action 10.3.1: Update zoning bylaws to prevent strip development.	High	PC, SB	Municipal Planning Grant	2018-2020
<p>*KEY: CC: Cemetery Commission; ChC: Charter Committee; CFAC: Conservation Fund Advisory Committee; CIC: Capitol Improvement Committee; CVEDC: Central Vermont Economic Development Corp.; CVRPC: Central Vermont Regional Planning Commission; DRB: Development Review Board; EC: Energy Committee; EMFD: East Montpelier Fire Department; EMHS: East Montpelier Historical Society; EMSLI: East Montpelier Senior Living Initiative; OLFPC: Old LaPerle Farm Property Committee; PC: Planning Commission; RB: Recreation Board; RF: Road Foreman; SB: Selectboard; TA: Town Administrator; TC: Town Clerk; TFC: Town Forest Committee; TSO: Town Service Officer; TW: Tree Warden; VC: Village Committee; VHCB: Vermont Housing & Conservation Board; VLT: Vermont Land Trust; VTrans: Vermont Agency of Transportation; ZA: Zoning Administrator</p>				

➤ Goal 10.4: Encourage development of the Industrial District.				
✓ Action 10.4.1: Update zoning bylaws to ensure that the boundaries, purposes and standards are appropriate to achieve the goals of the Town Plan.	High	PC, SB	Municipal Planning Grant	2018-2020
➤ Goal 10.5: Focus conservation efforts in areas with the highest resource values.				
✓ Action 10.5.1: Prioritize areas that would benefit from conservation and identify areas where conservation should not occur.	Moderate	CFAC, PC, SB		ongoing
✓ Action 10.5.2: Consider how conservation projects contribute to accomplishing other town goals, such as recreation, housing or renewable energy generation, when evaluating support from the town's Conservation Fund.	Moderate	CFAC, PC, SB		ongoing
➤ Goal 10.6: Promote energy-efficient land use patterns that facilitate walking, bicycling and use of public transportation.				
See actions for <u>Transportation</u> (6.2.1, 6.2.2, 6.2.3); <u>Housing</u> (8.1.1)				

Appendix A

Statutory Requirements for Town Plans

This table addresses the statutory requirements of the State of Vermont for town plans, as cited in the Vermont Municipal and Regional Planning and Development Act, Title 24 V.S.A Chapter 117 (the Act). It includes the 12 required elements found in § 4382 of the Act; the four planning process goals found in § 4302(b), the 14 specific goals found in § 4302(c); and the standard of review found in § 4302(f), which covers consistency with goals and compatibility standards.

24 V.S.A. § 4382. The plan for a municipality

Requirement	Plan Location	Plan Maps
<p>(a) A plan for a municipality may be consistent with the goals established in section 4302 of this title and compatible with approved plans of other municipalities in the region and with the regional plan and shall include the following:</p> <p>(1) A statement of objectives, policies and programs of the municipality to guide the future growth and development of land, public services and facilities, and to protect the environment.</p>	<p>Throughout the plan</p> <p>Chapter 11 Implementation</p>	
<p>(2) A land use plan, which shall consist of a map and statement of present and prospective land uses that</p> <p>(A) Indicates those areas proposed for forests, recreation, agriculture (using the agricultural lands identification process established in 6 V.S.A. § 8), residence, commerce, industry, public and semi-public uses and open spaces reserved for flood plain, and areas identified by the State, the regional planning commission, or the municipality that require special consideration for aquifer protection; for wetland protection; for the maintenance of forest blocks, wildlife habitat, and habitat connectors; or for other conservation purposes.</p> <p>(B) Sets for the present and prospective location, amount, intensity, and character of such land uses and the appropriate timing or sequence of land development activities in relation to the provision of necessary community facilities and service.</p> <p>(C) Identifies those area, if any, proposed for designation under chapter 76(A) of this title, together with, for each area proposed for designation, and explanation of how the designation would further the plan's goals and the goals of section 4302 of this title, and how the area meets the requirements for the type of designation to be sought.</p>	<p>Chapter 10 Land Use</p> <p>Chapter 9 Natural and Scenic Resources -- B. Wetlands and Waterways -- C. Forest Resources and Integrity -- D. Water Supplies and Aquifers -- F. Agriculture -- G. Scenic Resources</p> <p>Chapter 4 Community Resources -- C. Recreation -- D. Trails</p> <p>Chapter 6 Infrastructure -- A. Transportation</p> <p>Chapter 10 Land Use</p>	<p>Map 13 East Montpelier Current Land Use</p> <p>Map 14 East Montpelier Future Land Use</p> <p>Map 9 East Montpelier Agricultural and Forest Lands</p> <p>Map 4 East Montpelier Wetlands, Waterways and Flood Hazard Areas</p>

Requirement	Plan Location	Plan Maps
(D) Indicates those areas that are important as forest blocks and habitat connectors and plans for land development in those areas to minimize forest fragmentation and promote the health, viability and ecological function of forests. A plan may include specific policies to encourage the active management of those areas for wildlife habitat, water quality, timber production, recreation, or other values of functions identified by the municipality.	Chapter 9 Natural and Scenic Resources -- C. Forest Resources and Integrity	Map 11 East Montpelier Significant Forest Blocks, Habitat Connectors and Physical Landscapes
(3) A transportation plan , consisting of a map and statement of present and prospective transportation and circulation facilities showing existing and proposed highways and streets by type and character of improvement, and where pertinent, parking facilities, transit routes, terminals, bicycle paths and trails, scenic roads, airports, railroads and port facilities, and other similar facilities or uses, with indications of priority of need;	Chapter 6 Infrastructure -- A. Transportation Chapter 11 Implementation	Map 5 East Montpelier Transportation Map 6 East Montpelier Village Sidewalks
(4) A utility and facility plan , consisting of a map and statement of present and prospective community facilities and public utilities showing existing and proposed educational, recreational and other public sites, buildings and facilities, including hospitals, libraries, power generating plants and transmission lines, water supply, sewage disposal, refuse disposal, storm drainage and other similar facilities and activities, and recommendations to meet future needs for community facilities and services, with indications of priority of need, costs and method of financing;	Chapter 3 Town Government Chapter 4 Community Resources -- A. Education -- C. Recreation -- D. Trails -- E. Historic Resources Chapter 6 Infrastructure -- B. Solid Waste Disposal -- C. Wastewater Disposal -- D. Energy and Energy Conservation Chapter 9 Natural and Scenic Resources -- D. Water Supplies and Aquifers Chapter 11 Implementation	Map 1 East Montpelier Facilities Map 7 East Montpelier Utilities Map 3 East Montpelier Historic Sites
(5) A statement of policies on the preservation of rare and irreplaceable natural areas, scenic and historic features and resources;	Chapter 4 Community Resources -- E. Historic Resources Chapter 9 Natural and Scenic Resources	
(6) An educational facilities plan consisting of a map and statement of present and projected uses and the local public school system;	Chapter 5 Public Services -- A. Education	Map 1 East Montpelier Facilities

Requirement	Plan Location	Plan Maps
(7) A recommended program for the implementation of the objectives of the development plan;	Chapter 11 Implementation	
(8) A statement indicating how the plan relates to development trends and plans of adjacent municipalities, areas and the region developed under this title;	Chapter 2 About East Montpelier -- B. East Montpelier and the Region Chapter 10 Land Use	
(9) An energy plan , including an analysis of energy resources, needs, scarcities, costs and problems within the municipality, a statement of policy on the conservation of energy, including programs, such as thermal integrity standards for buildings, to implement that policy, a statement of policy on the development of renewable energy resources, a statement of policy on patterns and densities of land use likely to result in conservation of energy;	Chapter 6 Infrastructure -- D. Energy and Energy Conservation	
(10) A housing element that shall include a recommended program for addressing low and moderate income persons' housing needs as identified by the regional planning commission pursuant to subdivision 4348a(a)(9) of this title. The program should account for permitted accessory dwelling units, as defined in subdivision 4412(1)(E) of this title, which provide affordable housing.	Chapter 8 Housing	Map 8 East Montpelier Housing Distribution
(11) An economic development element that describes present economic conditions and the location, type, and scale of desired economic development, and identifies policies, projects, and programs necessary to foster economic growth.	Chapter 7 Economic Development	
(12)(A) A flood resilience plan that: (i) identifies flood hazard and fluvial erosion hazard areas, based on river corridor maps provided by the Secretary of Natural Resources pursuant to 10 V.S.A. § 1428(a) or maps recommended by the Secretary, and designates those areas to be protected, including floodplains, river corridors, land adjacent to streams, wetlands, and upland forests, to reduce the risk of flood damage to infrastructure and improved property; and (ii) recommends policies and strategies to protect the areas identified and designated under subdivision (12)(A)(i) of this subsection and to mitigate risks to public safety, critical infrastructure, historic structures, and municipal investments. (B) A flood resilience plan may reference an existing local hazard mitigation plan approved under 44 C.F.R. § 201.6.	Chapter 5 Public Services -- D. Hazard Mitigation and Flood Resilience	Map 4 East Montpelier Wetlands, Waterways and Flood Hazard Areas
(b) the maps called for by this section may be incorporated on one or more maps, and may be referred to in each separate statement called for by this section.		See Maps

Requirement	Plan Location	Plan Maps
(c) Where appropriate, and to further the purpose of subsection 4302(b) of this title, a municipal plan shall be based upon inventories, studies and analyses of current trends and shall consider the probable social and economic consequences of the proposed plan. Such studies may consider or contain, but not be limited to: (1) population characteristics and distribution, including income and employment; (2) the existing and projected housing needs by amount, type, and location for all economic groups within the municipality and the region; (3) existing and estimated patterns and rates of growth in the various land use classifications, and desired patterns and rates of growth in terms of the community's ability to finance and provide public facilities and services.	Chapter 2 About East Montpelier -- A. A Look at the Town Chapter 7 Economic Development Chapter 8 Housing Chapter 10 Land Use	

1
2
3

1 24 VSA § 4302 Municipal and Regional Planning: Purpose; Goals

Requirement	Plan Location	Plan Maps
<p>(a) General purposes . . .</p> <p>(b) It is also the intent of the legislature that municipalities, regional planning commissions and state agencies shall engage in a continuing planning process that will further the following goals:</p> <p>(1) To establish a coordinated, comprehensive planning process and policy framework to guide decisions by municipalities, regional planning commissions, and state agencies.</p> <p>(2) To encourage citizen participation at all levels of the planning process, and to assure that decisions shall be made at the most local level possible commensurate with their impact.</p> <p>(3) To consider the use of resources and the consequences of growth and development for the region and the state, as well as the community in which it takes place.</p> <p>(4) To encourage and assist municipalities to work creatively together to develop and implement plans.</p> <p>(c) In addition, this chapter shall be used to further the following specific goals:</p>	Chapter 1 Introduction	
<p>Goal 1: To plan development so as to maintain the historic settlement pattern of compact village and urban centers separated by rural countryside.</p> <p>A) Intensive residential development should be encouraged primarily in areas related to community centers, and strip development along highways should be discouraged.</p> <p>B) Economic growth should be encouraged in locally designated growth areas, or employed to revitalize existing village and urban centers, or both., and should be encouraged in growth centers designated under chapter 76A of this title.</p> <p>(C) Public investments, including construction or expansion of infrastructure, should reinforce the general character and planned growth patterns of the area.</p> <p>(D) Development should be undertaken in accordance with smart growth principles as defined in subdivision 2791(13) of this title.</p>	Chapter 10 Land Use	
<p>Goal 2: To provide a strong and diverse economy that provides satisfying and rewarding job opportunities and that maintains high environmental standards, and to expand economic opportunities in areas with high unemployment or low per capita incomes.</p>	Chapter 7 Economic Development	

2
3
4

Requirement	Plan Location	Plan Maps
Goal 3: To broaden access to educational and vocational training opportunities sufficient to ensure the full realization of the abilities of all Vermonters.	Chapter 5 Community Resources -- A. Education	
Goal 4: To provide for safe, convenient, economic and energy efficient transportation systems that respect the integrity of the environment, including public transit options and paths for pedestrians and bicyclers. (A) Highways, air, rail and other means of transportation should be mutually supportive, balanced and integrated.	Chapter 6 Infrastructure -- A. Transportation	
Goal 5: To identify, protect and preserve important natural and historic features of the Vermont landscape including: (A) significant natural and fragile areas; (B) outstanding water resources, including lakes, rivers, aquifers, shorelands and wetlands; (C) significant scenic roads, waterways and views; (D) important historic structures, sites, or districts, archaeological sites and archaeologically sensitive areas	Chapter 9 Natural and Scenic Resources Chapter 4 Community Resources -- E. Historic Resources	
Goal 6: To maintain and improve the quality of air, water, wildlife and land resources. (A) Vermont's air, water, mineral, and land resources should be planned for use and development according to the principles set forth in 10 V.S.A. § 6086(a). (B) Vermont's water quality should be maintained and improved according to the policies and actions developed in the basin plans established by the Secretary of Natural Resources under 10 V.S.A § 1253. (C) Vermont's forestland should be managed so as to maintain and improve forest blocks and habitat connectors.	Chapter 9 Natural and Historic Resources -- A. Air Quality -- B. Wetland and Waterways -- C. Forest Resources & Forest Integrity -- D. Water Supplies and Aquifers -- E. Earth Resources -- F. Agriculture	
Goal 7: To make efficient use of energy, provide for the development of renewable energy resources, and reduce emissions of greenhouse gases. (A) General strategies for achieving these goals include increasing the energy efficiency of new and existing buildings; identifying areas suitable for renewable energy generation; encouraging the use and development of renewable or lower emission energy sources for electricity, heat, and transportation; and reducing transportation energy demand and single occupancy vehicle use. (B) Specific strategies and recommendations for achieving these goals are identified in the State energy plans prepared under 30 V.S.A. §§ 202 and 202b.	Chapter 5 Public Services -- C. Energy and Energy Conservation	

Requirement	Plan Location	Plan Maps
<p>Goal 8: To maintain and enhance recreational opportunities for Vermont residents and visitors.</p> <p>(A) Growth should not significantly diminish the value and availability of outdoor recreational activities.</p> <p>(B) Public access to noncommercial outdoor recreational opportunities, such as lakes and hiking trails, should be identified, provided, and protected wherever appropriate.</p>	<p>Chapter 4 Community Resources</p> <p>-- C. Recreation</p> <p>-- D. Trails</p>	
<p>Goal 4: To provide for safe, convenient, economic and energy efficient transportation systems that respect the integrity of the natural environment, including public transit options and paths for pedestrians and bicyclers.</p> <p>(A) Highways, air, rail and other means of transportation should be mutually supportive, balanced and integrated.</p>	<p>Chapter 6 Infrastructure</p> <p>-- A. Transportation</p>	
<p>Goal 5: To identify, protect and preserve important natural and historic features of the Vermont landscape including:</p> <p>(A) significant natural and fragile areas;</p> <p>(B) outstanding water resources, including lakes, rivers, aquifers, shorelands and wetlands;</p> <p>(C) significant scenic roads, waterways and views;</p> <p>(D) important historic structures, sites, or districts, archaeological sites and archaeologically sensitive areas</p>	<p>Chapter 9 Natural and Scenic Resources</p> <p>Chapter 4 Community Resources</p> <p>-- E. Historic Resources</p>	
<p>Goal 6: To maintain and improve the quality of air, water, wildlife and land resources.</p> <p>(A) Vermont's air, water, mineral, and land resources should be planned for use and development according to the principles set forth in 10 V.S.A. § 6086(a).</p> <p>(B) Vermont's water quality should be maintained and improved according to the policies and actions developed in the basin plans established by the Secretary of Natural Resources under 10 V.S.A § 1253.</p> <p>(C) Vermont's forestland should be managed so as to maintain and improve forest blocks and habitat connectors.</p>	<p>Chapter 9 Natural and Historic Resources</p> <p>-- A. Air Quality</p> <p>-- B. Wetland and Waterways</p> <p>-- C. Forest Resources & Forest Integrity</p> <p>-- D. Water Supplies and Aquifers</p> <p>-- E. Earth Resources</p> <p>-- F. Agriculture</p>	
<p>Goal 7: To make efficient use of energy, provide for the development of renewable energy resources, and reduce emissions of greenhouse gases.</p> <p>(A) General strategies for achieving these goals include increasing the energy efficiency of new and existing buildings; identifying areas suitable for renewable energy generation; encouraging the use and development of renewable or lower emission energy sources for electricity, heat, and transportation; and reducing transportation energy demand and single occupancy vehicle use.</p> <p>(B) Specific strategies and recommendations for achieving these goals are identified in the State energy plans prepared under 30 V.S.A. §§ 202 and 202b.</p>	<p>Chapter 5 Public Services</p> <p>-- C. Energy and Energy Conservation</p>	

Requirement	Plan Location	Plan Maps
<p>Goal 8: To maintain and enhance recreational opportunities for Vermont residents and visitors.</p> <p>(A) Growth should not significantly diminish the value and availability of outdoor recreational activities.</p> <p>(B) Public access to noncommercial outdoor recreational opportunities, such as lakes and hiking trails, should be identified, provided, and protected wherever appropriate.</p>	<p>Chapter 4 Community Resources</p> <p>-- C. Recreation</p> <p>-- D. Trails</p>	
<p>Goal 9: To encourage and strengthen agricultural and forest industries.</p> <p>(A) Strategies to protect long-term viability of agricultural and forest lands should be encouraged and should include maintaining low overall density.</p> <p>(B) The manufacture and marketing of value added agricultural and forest products should be encouraged.</p> <p>(C) The use of locally-grown food products should be encouraged.</p> <p>(D) Sound forest and agricultural management practices should be encouraged.</p> <p>(E) Public investment should be planned so as to minimize development pressure on agricultural and forest land.</p>	<p>Chapter 9 Natural and Scenic Resources</p> <p>-- C. Forest Resources & Forest Integrity</p> <p>-- F. Agriculture</p> <p>Chapter 7 Economic Development</p> <p>Chapter 3 Community Resources</p> <p>-- B. Community Health</p> <p>Chapter 10 Land Use</p>	
<p>Goal 10: To provide for the wise and efficient use of Vermont's natural resources and to facilitate the appropriate extraction of earth resources and the proper restoration and preservation of the aesthetic qualities of the area.</p>	<p>Chapter 9 Natural and Scenic Resources</p> <p>-- E. Earth Resources</p>	
<p>Goal 11: To ensure the availability of safe and affordable housing for all Vermonters.</p> <p>(A) Housing should be encouraged to meet the needs of a diversity of social and income groups in each Vermont community, particularly for those citizens of low and moderate income.</p> <p>(B) New and rehabilitated housing should be safe, sanitary, located conveniently to employment and commercial centers, and coordinated with the provision of necessary public facilities and utilities.</p> <p>(C) Sites for multi-family and manufactured housing should readily available in locations similar to those generally used for single-family conventional dwellings.</p> <p>(D) Accessory apartments within or attached to single family residences which provide affordable housing in close proximity to cost-effective care and supervision for relatives or disabled or elderly persons should be allowed.</p>	<p>Chapter 8 Housing</p>	

1
2
3
4

Requirement	Plan Location	Plan Maps
<p>Goal 12: To plan for, finance and provide an efficient system of public facilities and services to meet future needs.</p> <p>(A) Public facilities and services should include fire and police protection, emergency medical services, schools, water supply and sewage and solid waste disposal.</p> <p>(B) The rate of growth should not exceed the ability of the community and the area to provide facilities and services.</p>	<p>Chapter 3 Town Government and Finance</p> <p>Chapter 5 Public Services</p> <p>Chapter 6 Infrastructure</p>	
<p>Goal 13: To ensure the availability of safe and affordable child care and to integrate child care issues into the planning process, including child care financing, infrastructure, business assistance for child care providers, and child care work force development.</p>	<p>Chapter 5 Public Services</p> <p>-- Social Services</p>	
<p>Goal 14: To encourage flood resilient communities.</p> <p>(A) New development in identified flood hazard, fluvial erosion, and river corridor protection areas should be avoided. If new development is to be built in such areas, it should not exacerbate flooding and fluvial erosion.</p> <p>(B) The protection and restoration of floodplains and upland forested areas that attenuate and moderate flooding and fluvial erosion should be encouraged.</p> <p>(C) Flood emergency preparedness and response planning should be encouraged.</p>	<p>Chapter 5 Public Services</p> <p>-- D. Hazard Mitigation and Flood Resilience</p> <p>Chapter 10 Land Use</p>	
<p>(d) All plans and regulations prepared under the authority of this chapter shall be based upon surveys of existing conditions and probable future trends, and shall be made in the light of present and future growth and requirements, and with reasonable consideration for the landowner, to topography, to needs and trends of the municipality, the region and the State, to the character of each area and to its peculiar suitability for particular uses in relationship to surrounding areas, and with a view to conserving the value of buildings.</p>	<p>Chapter 1 Introduction</p> <p>Chapter 2 About East Montpelier</p>	

1

2

Appendix B

2011 Town Plan Survey Summary

Complete survey results are in the 2013 Town Plan

The 2011 Survey was conducted town-wide to guide planning commissioners in writing the 2013 Town Plan. The survey contained questions on a broad range of topics. All East Montpelier residents received a survey and 146 residents/families completed it. Overall, respondents showed a great appreciation of our town, its rural nature, sense of community, and farming traditions (though lowering taxes was a common theme). Following are some highlights:

- **Rural character, water quality, energy conservation and the quality of our schools** ranked as the most important issues in town planning.
- **Housing for seniors** was noted as important.
- **Protection of groundwater quality** ranked high as a focus of future land conservation and planning efforts, with **protection of farmland** second.
- The **importance of farming to our community** was strongly stated in numerous comments focusing on its importance in providing local food and retaining the character of the landscape.
- There were many comments about **enhancing East Montpelier Village** including desires for restaurants, a farmer's market, a park and ride, and sidewalks.
- East Montpelier residents seem generally satisfied with our **recreational opportunities**.
- **Energy efficiency** and meeting safety codes were the most important goals for improving the elementary school facility. [Note: EMES has since been renovated.]
- There were three **things that people liked most** about the town: people/community, rural character, and the town's proximity to Montpelier and Barre.
- There was less agreement about **dislikes** but some that were commonly mentioned were: lack of internet access, high taxes, lack of an appealing village center, traffic, and mud season.

Appendix C

2012 Recreation Survey Results

The survey below was delivered to all families of East Montpelier Elementary School, referenced on *The Signpost* website for on-line completion, and available at Town Meeting. The results of the survey are indicated following the possible responses to each question.

East Montpelier Recreation Committee Survey

Thank you for taking the time to complete this brief survey. The East Montpelier Recreation Committee's mission is to support recreational activities and community events for all residents of East Montpelier by providing quality facilities for recreational activities and supporting quality events that enhance the community. We recognize that the vitality of our community comes from our members and as such we need your opinions to ensure that we are accomplishing our mission and meeting the needs of our community. Thank you for participating.

Current programs include soccer, basketball, baseball, Easter Egg Hunt, and swimming.

1. Have you, or your family, participated in activities sponsored by the East Montpelier Recreation Committee?

Yes: 48 No: 17 Not Sure: 6

2. Do you have children age 18 or younger living in your household?

Yes: 43 No: 29

3. If yes, do they participate in athletic programs sponsored by the East Montpelier Recreation Committee?

Yes: 34 No: 17

4. Would you and your family be interested in participating in community-based activities?

Regularly: 19 Occasionally: 42 Never: 4

5. What types of activities would you like to see offered by the Recreation Committee? (swimming, tennis clinics, Easter Egg Hunt, soccer, basketball, baseball, guided nature walks, community hikes, community cookouts, skiing, cross-country skiing/snowshoeing, ice skating, river tubing etc.)

All of the above, historic/nature walks, sports tournaments, open gym nights, community cookouts, outside activities for all levels (age and fitness), teen activities for competitive athletes between seasons and teens not participating on athletic teams for seeking athletic activity, community cookouts, running and fitness groups, community kickball / dodge ball / softball / basketball / pick up hockey, running program for boys (similar to Girls on the Run), tennis clinics

- 1 7. How often do you visit the Recreation Field in East Montpelier?
2 **Extremely often: 1 Very often: 5 Moderately often: 16**
3 **Slightly often: 16 Not at all: 27**
- 4 8. During the winter season, how often would a member of your family utilize an outdoor ice
5 rink, if located in town?
6 **0 times: 14 1-5 times: 21 6-10 times: 13 10+ times: 20**
- 7 9. Would you or your family participate in activities geared towards seniors?
8 **Yes: 14 No: 28 Maybe: 26**
- 9 10. How likely is a member of your household to participate in activities for teens and young
10 adults?
11 **N/A: 27 Not Likely: 22 Somewhat Likely: 10 Very Likely: 7**
- 12 11. Are there additional offerings you would like to see from the East Montpelier Recreation
13 Committee? (*see question 5 above*)

Appendix D

Surficial and Bedrock Geology Mapping Summary

Note: Maps are displayed in the Town Office and available on the town website under Planning and Zoning documents at: <http://eastmontpeliervt.org/wp-content/uploads/2013/11/geologic-survey-poster.pdf>

Summary Analysis of Groundwater Resources in the Town of East Montpelier, Vermont February 2013

At the request of the East Montpelier Selectboard, the Vermont Geological Survey (VGS) and the Norwich University Department of Geology completed bedrock and surficial geologic maps of this town during the 2011 field season. Concurrently with the mapping, volunteers from East Montpelier assisted us in accurately locating domestic wells in town using GPS units. These wells were later combined with others that had been independently correlated with E-911 locations (total = 192 wells). Each well is associated with a log that contains information on well depth, overburden thickness and characteristics, yield, and static water level. It is necessary to integrate the well log data with the geologic maps in order to produce derivative maps that bear directly on groundwater resources. We will summarize the bedrock and surficial maps, highlight findings of the derivative maps, and then compile data related to the Antonovich spring(s).

The Richardson Memorial Contact (RMC), which is a faulted Silurian unconformity that runs through the northwestern quarter of East Montpelier, separates metamorphic rocks of the Green Mountain Belt (GMB) to the west from those of the Connecticut Valley Belt (CVB) to the east. The GMB is composed of Pre-Silurian phyllites and phyllitic quartzites of the Moretown and Cram Hill formations, whereas Silurian-Devonian phyllites (Northfield Fm), siliceous marbles interlayered with phyllites (Waits River Formation), and thin granite bodies (New Hampshire Plutonic Series) comprise the CVB.

Uplands are primarily underlain by dense Pleistocene silt- and fine-sand-matrix glacial till. Till is thin (<20') on hilltops and bedrock outcrops are abundant. Striations and grooves in bedrock indicate that the latest ice movement was generally to the south-southeast or south, varying from 159 to 202 degrees. The deposits in the Winooski River valley are commonly over 30 meters thick and consist of a sequence of Holocene stream deposits overlying Pleistocene lacustrine sand, silt, and silty clay deposits, which, in turn, overlie till or ice-contact sand and gravel. The limited surface exposures and the available borings and wells suggest that the gravel and sand deposits below the lake deposits may be discontinuous esker deposits. This buried sand and gravel may have significant aquifer potential. The deposits in the Kingsbury Branch valley in the eastern part of town are also thick, but are predominantly fine-grained.

The isopach map, which portrays the thickness of overburden overlying bedrock, shows that the thickest surficial deposits are located in the Winooski River Valley, on the southeast side of town. A generalized map of groundwater flow directions (potentiometric surface), based primarily on topography, but also locally constrained by static water levels, shows groundwater flow directions towards the North Branch in the NW quarter of town and toward the Winooski River and tributaries in the SE three-quarters of town.

All accurately-located wells in East Montpelier were completed in bedrock. On average, wells in the Silurian-Devonian rocks have twice the yield as those in Pre-Silurian rocks, and were only 80% as deep. Many bedrock wells with yields >20 gpm are found in the vicinity of the Winooski River

Valley, where overburden thickness is >25'. We hypothesize that groundwater in the porous and permeable surficial material flows downward and augments that in the bedrock aquifer.

Groundwater from 17 bedrock wells was tested for Gross Alpha, Uranium, Arsenic, Nitrate, and Fluoride by VGS and Middlebury College (Daly, 2011). No results exceeded established standards of the Vermont Dept. of Health.

The spring(s), on property owned by Daniel Antonovich, sits on the thinly-bedded carbonate member of the Waits River Formation (DSw11), which has average well yields of ~21 gpm. The Johnson Company (1995b) suggested that groundwater that emanates from this spring(s) is derived from the underlying bedrock aquifer and that the small watersheds that encompass the spring(s) have an area of ~260 acres.

Based on the combined gauging data from the “Spring House overflow/leakage pipe and weir” and “North Street Pipe” acquired by the Johnson Company (1995c), the maximum spring discharge occurs in March followed by a consistent decline to the minimum discharge in August. These data are consistent with recharge being dominated by a pulse of groundwater derived from early spring snowmelt and rainfall.

Using the average (72 gpm) and maximum (178 gpm) gauging results from the spring and the methods and constraining data (annual Montpelier precipitation=34"; annual loss from surface runoff=15"; annual loss from evapotranspiration=10") of the Johnson Company (1995a) in the formula $\text{Recharge Area} = \frac{\text{Total Spring Discharge per year}}{\text{Total Groundwater Recharge per year}}$, the recharge area for the spring(s) ranges from 155 – 383 acres. However, because the maximum spring flow is coincident with a period of negligible evapotranspiration, the adjusted acreage for the recharge area would only be 182 acres. The adjusted recharge area then only ranges from 155-182 acres, which is less than the combined area of the small watersheds discussed above. Because groundwater recharge to the bedrock aquifer in the Waits River Formation is dominantly driven by episodic spring snowmelt and precipitation, during a period of minimal evapotranspiration, the recharge area for any given spring or well will be considerably less than would be predicted by a year-long analysis.

There has been speculation that the source of groundwater feeding the spring(s) was as far away as southern Quebec. Using a simple analysis of the drainage patterns of HUC8 watersheds in the northern half of Vermont, there is no reasonable way for surface and/or groundwater from southern Quebec to reach to East Montpelier or vice versa.

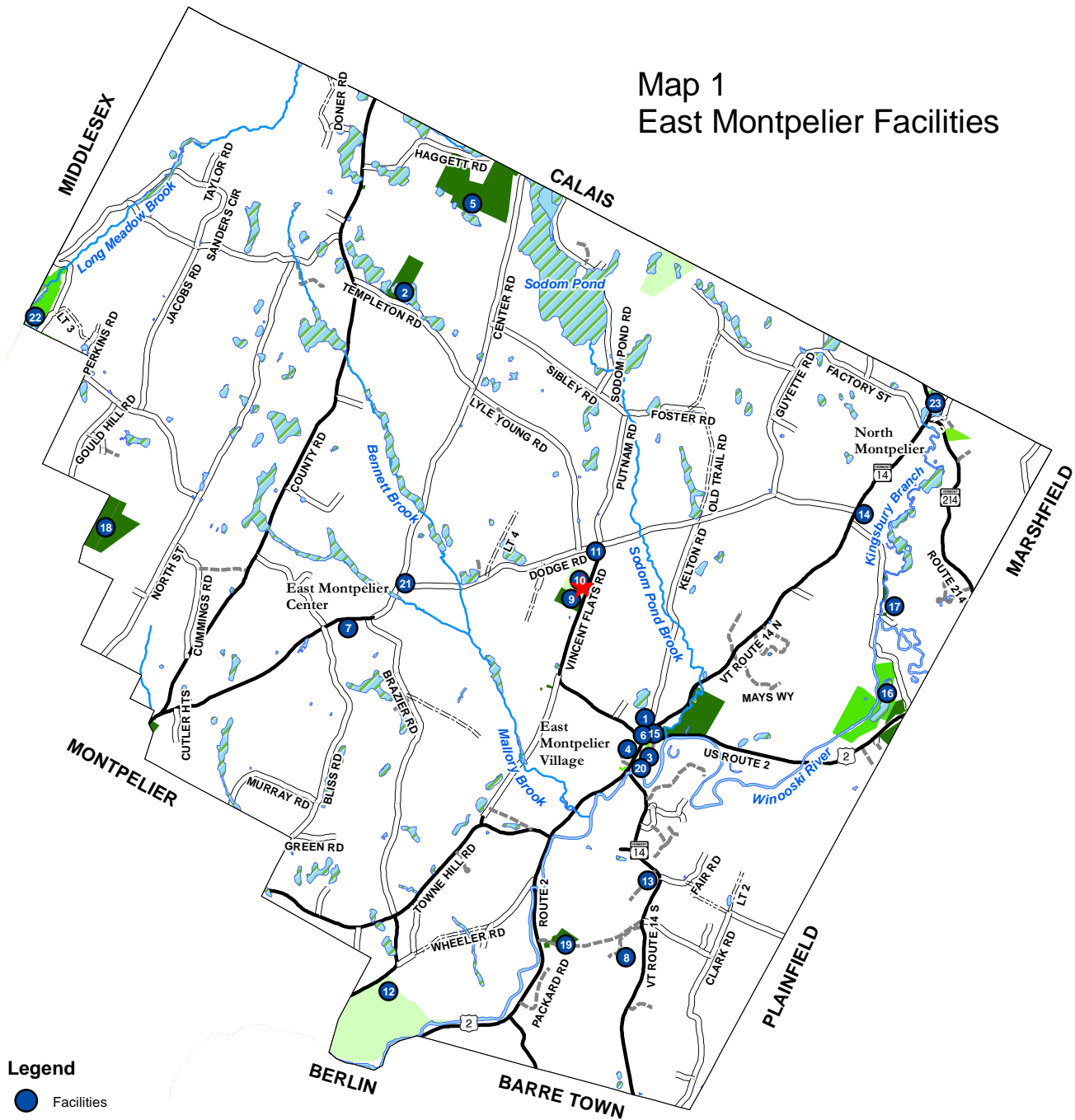
In 2000, the Johnson Company sampled groundwater from three springs on the Antonovich property and had these samples analyzed at the Endyne Laboratories in Williston, Vermont, for a number of parameters. The Vermont Geological Survey, in conjunction with partners at the Vermont Agency of Agriculture and Middlebury College, have sampled and analyzed groundwater from bedrock wells in the Waits River Formation in the towns of East Montpelier, Plainfield, and Craftsbury for most of the same parameters. We directly compared the Johnson Company results with those from other wells in the Waits River Formation and found that they are not statistically different.

— Jon Kim and Larry Becker, Vermont Geological Survey

— George Springston, Norwich University

MAPS

Map 1 East Montpelier Facilities



Legend

- Facilities
- ★ Emergency Shelter

Public Lands by Owner

- Town
- State
- Other
- ▨ Wetlands
- Rivers, Lakes, and Ponds
- Streams

Roads

- Paved
- - - Gravel
- . . . Class 4/Legal Trail
- - - Private

1. Municipal Office Building
2. Fire Station/Town Garage (Templeton Rd)
3. Fire Station (Village Acres)
4. East Montpelier Post Office
5. Town Forest
6. Old Brick Church
7. Old Meeting House
8. Crossroads Christian Church
9. Recreation Field
10. East Montpelier Elementary School
11. Four Corners School House
12. U-32 (Union District 32 Junior/Senior High)
13. Central Vermont Humane Society
14. Orchard Valley Waldorf School
15. Park and Ride Facility
16. Coburn Pond Swimming Hole
17. Canoe Access
18. Baird Parcel
19. Benton Parcel
20. East Village Cemetery
21. Doty Cemetery
22. Wrightsville Reservoir
23. North Montpelier Pond



0 0.5 1 2 Miles



Map Created 11/22/17 by CVRPC; revised 12/22/17
N:\Towns\East Montpelier\Town Plan_2018\Facilities.mxd

Source:
Public Lands - Conserved Lands Database,
and Town of East Montpelier 2016
Parcels- 2015 East Montpelier
E911 Sites - 2017

Data is only as accurate as its original source.
This map is for planning purposes only.
This map may contain errors and omissions.

Map 2 East Montpelier Trails Map

Existing Trails: - - - - -

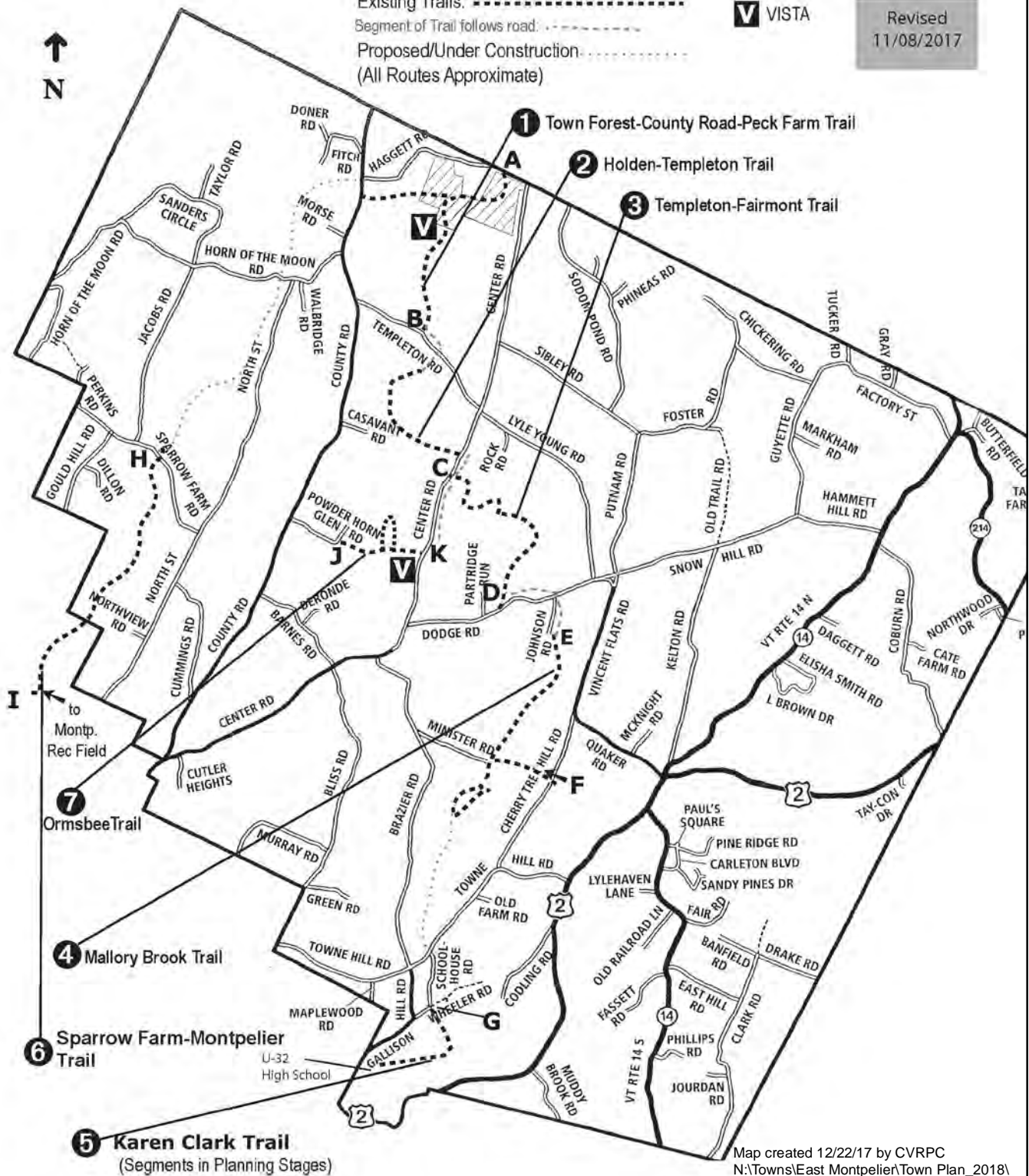
Segment of Trail follows road: - . - . - .

Proposed/Under Construction: -

(All Routes Approximate)

V VISTA

Revised
11/08/2017



Map created 12/22/17 by CVRPC
N:\Towns\East Montpelier\Town Plan_2018\
Trails_EMTrails.mdx
SOURCE:
East Montpelier Trails, Inc. 2017

Data is only as accurate as its original source.
This map is for planning purposes only.
This map may contain errors and omissions.

EAST MONTPELIER HISTORIC SITES

(See Map 3)

SCHOOLS

- ❶ Cutler School
- ❷ East Hill School *
- ❸ North Montpelier School
- ❹ Four Corners School
- ❺ Center School
- ❻ Peck School
- ❼ Morse School
- ❽ Cummings School *
- ❾ East Village School
- ❿ Horn of the Moon School
- ⓫ Number 7 School *

CHURCHES

- ❿ Quaker Meeting House (1st) *
- ⓫ Quaker Meeting House (2nd) *
- ⓬ Old Meeting House
- ⓭ Old Brick Church
- ⓮ Union Meeting House *
- ⓯ Evangelical Church

INNS & TAVERNS

- ⓰ Show Tavern
- ⓱ Clough & Parker Tavern
- ⓲ Parley Davis House
- ⓳ Morse Tavern *
- ⓴ Gray's Inn
- ⓵ Dudley's Store
- ⓶ Rich Tavern

STRUCTURES OF PARTICULAR INTEREST

- ⓷ Phinney House
- ⓸ Coburn Bridge
- ⓹ North Montpelier Store
- ⓺ Hezekiah Davis House
- ⓻ North Montpelier Mill *
- ⓼ Sibley House
- ⓽ Town Hall

CENTURY HOMESTEADS

- ⓿ Fitch Homestead
- ⓫ Lane Homestead *
- ⓬ Strong Homestead
- ⓭ Butler Homestead
- ⓮ Chapell Homestead
- ⓯ Bair Homestead
- ⓰ Sibley Homestead
- ⓱ McKnight Homestead
- ⓲ Young-Cleaves Homestead
- ⓳ Coburn Homestead
- ⓴ Pilbin Homestead

CEMETERIES & OTHER BURIAL GROUNDS

- ⓵ Bennett Monument
- ⓶ Cate Cemetery
- ⓷ Doty Cemetery
- ⓸ Clark Cemetery
- ⓹ Cutler Cemetery
- ⓺ Dillon Farm Burials
- ⓻ East Village Cemetery
- ⓼ Gould Cemetery
- ⓽ Gray Cemetery
- ⓿ Peck Cemetery
- ⓫ Persons Cemetery
- ⓬ Plain-Mount Cemetery
- ⓭ Quaker Cemetery
- ⓮ Tinkham Cemetery
- ⓯ Wheeler Cemetery
- ⓰ White Cemetery
- ⓱ Willard Cemetery

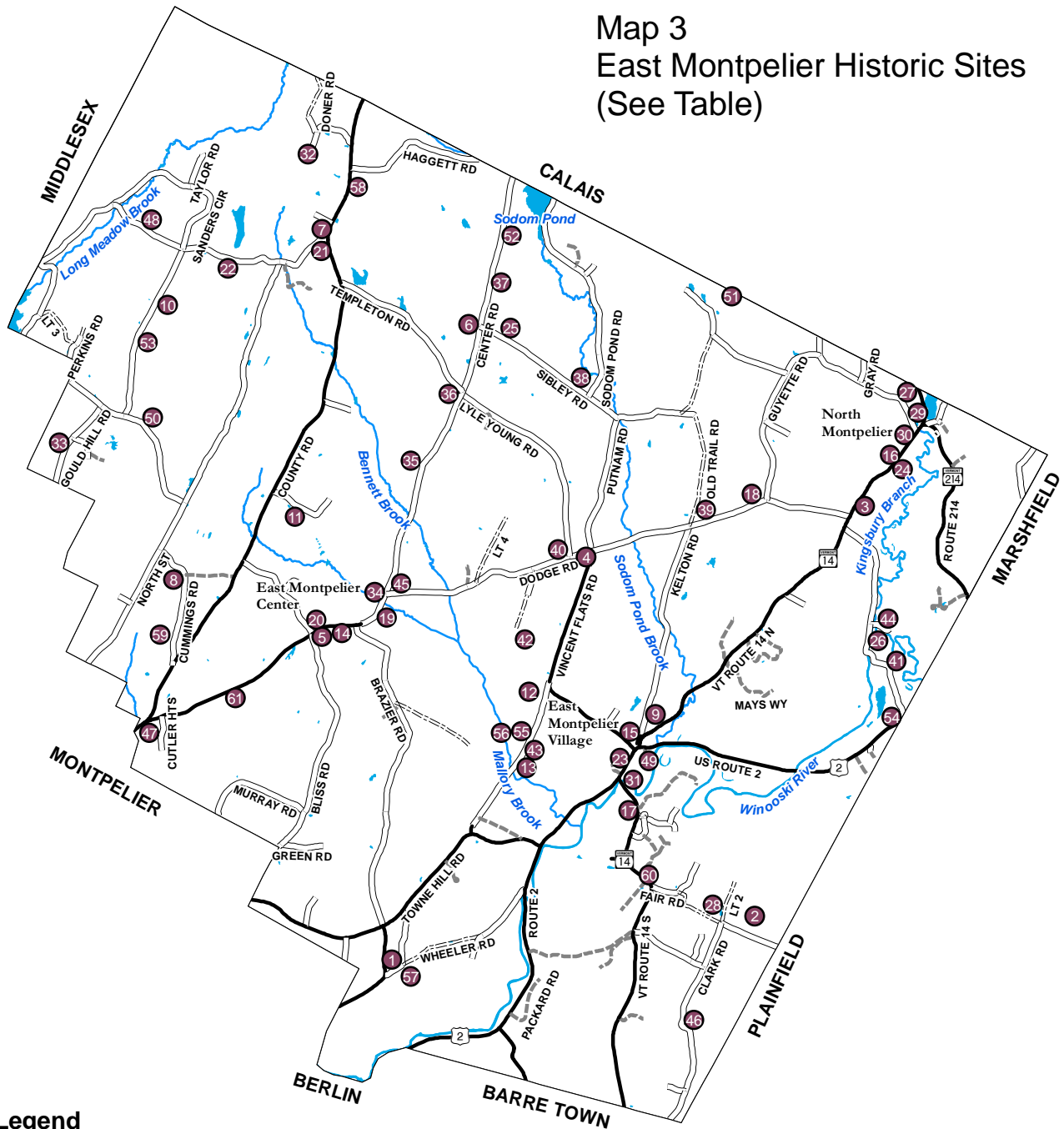
OTHER POINTS OF INTEREST

- ⓫ Old Railroad Station *
- ⓬ Old Slate Quarry

* Structure no longer exists

For more information about these historic points of interest, see
"Historic Sites of East Montpelier," available at the Town Office.

Map 3 East Montpelier Historic Sites (See Table)



Legend

- Historic Sites (See Table)
- Rivers, Lakes, and Ponds
- Streams
- Town Boundary

Roads

- Paved
- Gravel
- Class 4/Legal Trail
- Private



0 0.5 1 2 Miles

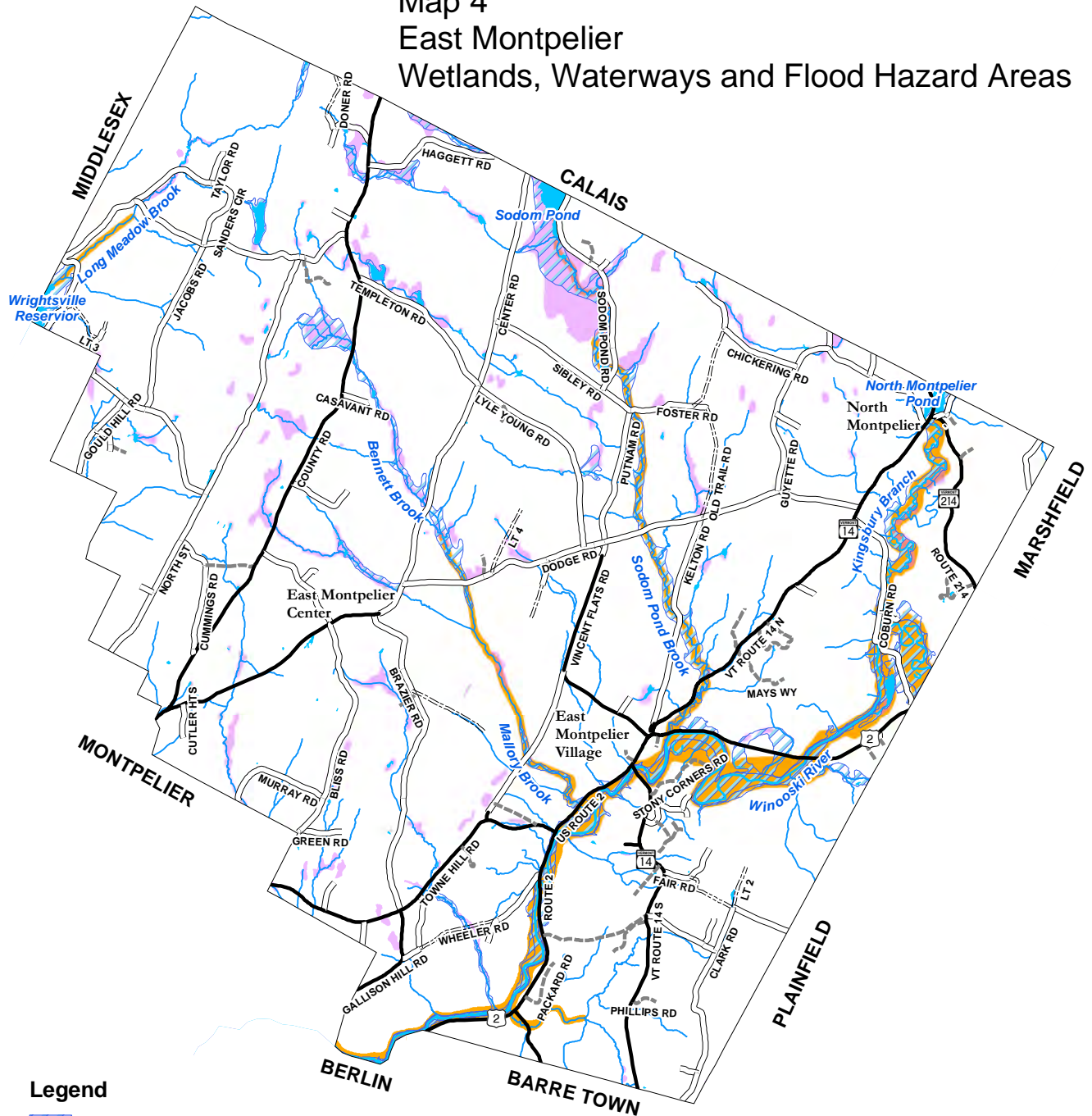


Map Created 01/03/13 by CVRPC Updated 12/22/2017
N:\Towns\East Montpelier\Town_Plan_2018\
Historic Sites Map 2018.mxd

Sources:
Historic Sites: East Montpelier, 2017.
Town Roads: VTrans and CVRPC, 2017.

Data is only as accurate as its original source.
This map is for planning purposes only.
This map may contain errors and omissions.

Map 4 East Montpelier Wetlands, Waterways and Flood Hazard Areas



Legend

- Special Flood Hazard Area
- River Corridor
- Wetlands
- Rivers, Lakes, and Ponds
- Streams

Roads

- Paved
- Gravel
- Class 4/Legal Trail
- Private



0 0.5 1 2 Miles

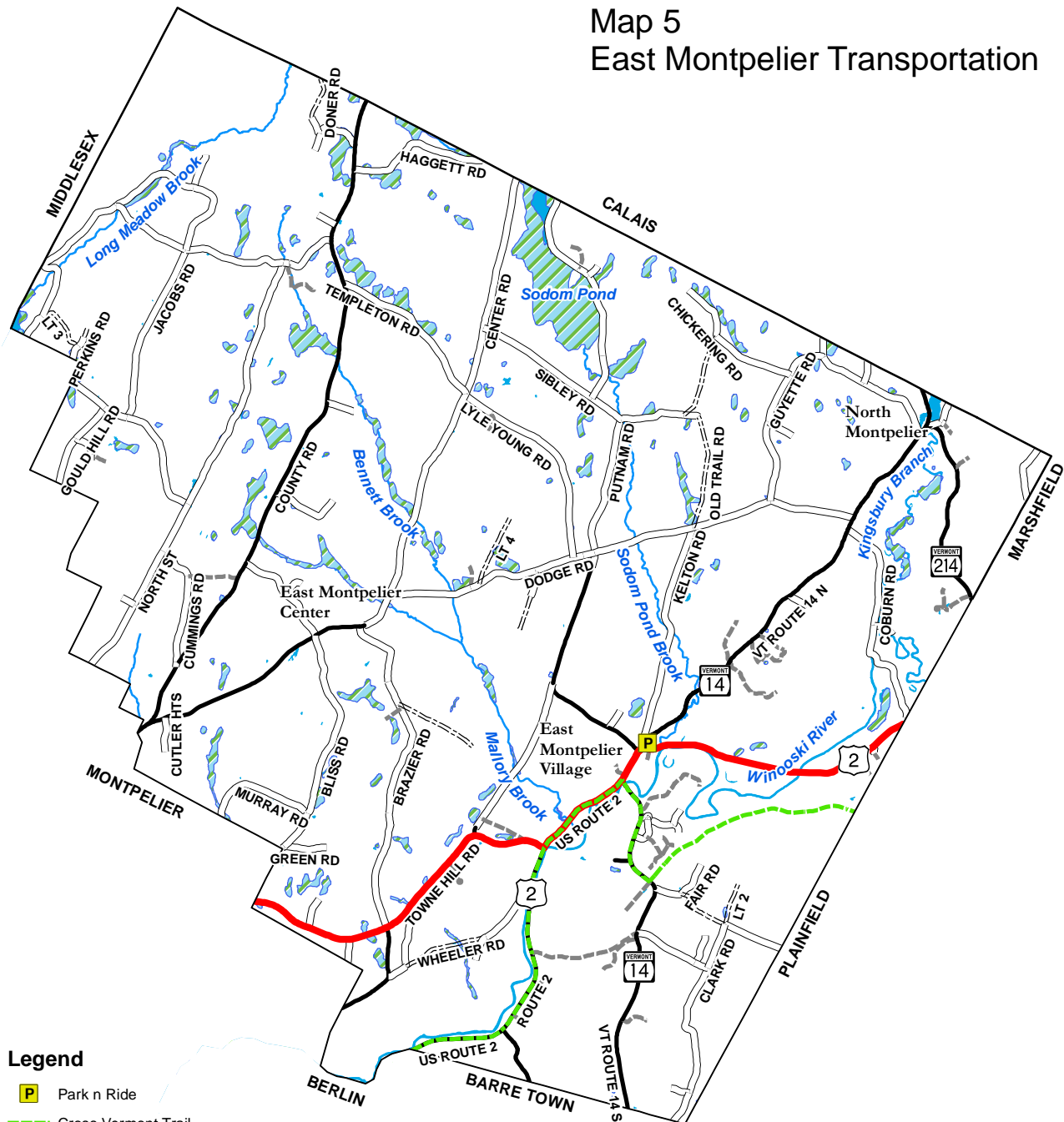


Map Created by CVRPC 11/27/2017
N:\Towns\East Montpelier\Town Plan_2018\
Wetlands, Waterways & Flood Hazard.mxd

SOURCE:
Roads: VTrans Road Centerlines - VCGI 2017
Hydrologic Data: VHD - VCGI 2008
Wetlands: VSWI, VTANR 2010
Flood Hazard: FEMA, NFIP 2011

Data is only as accurate as its original source.
This map is for planning purposes only.
This map may contain errors and omissions.

Map 5 East Montpelier Transportation



Legend

- P Park n Ride
- Cross Vermont Trail
- US 2 Commuter Bus Route
- Wetlands
- Rivers, Lakes, and Ponds
- Streams
- Town Boundary

Roads

- Paved
- Gravel
- Class 4/Legal Trail
- Private



0 1 2 Miles

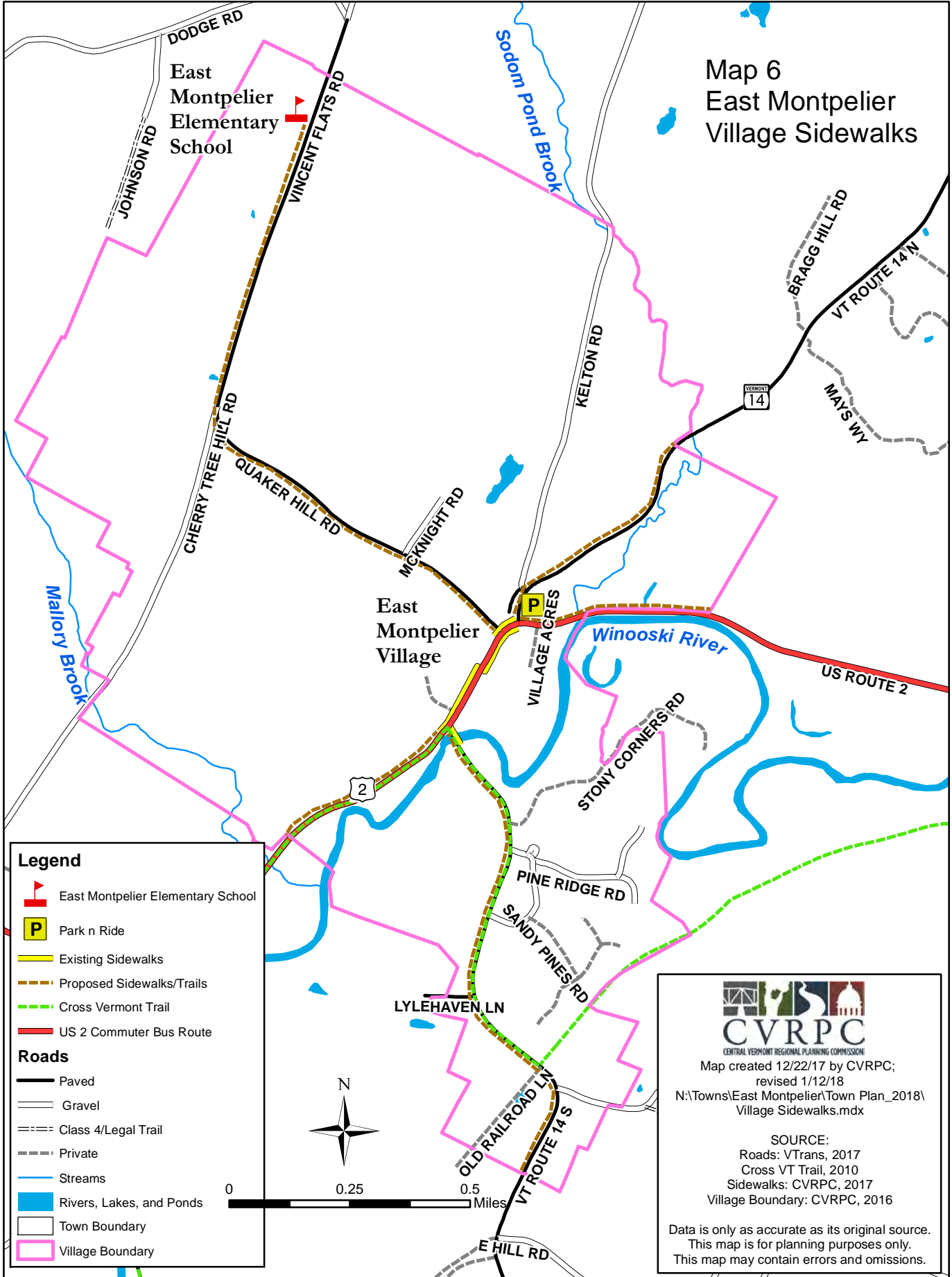


Map created 11/1/17 by CVRPC
N:\Towns\East Montpelier\Town Plan_2018\
Transportation.mdx

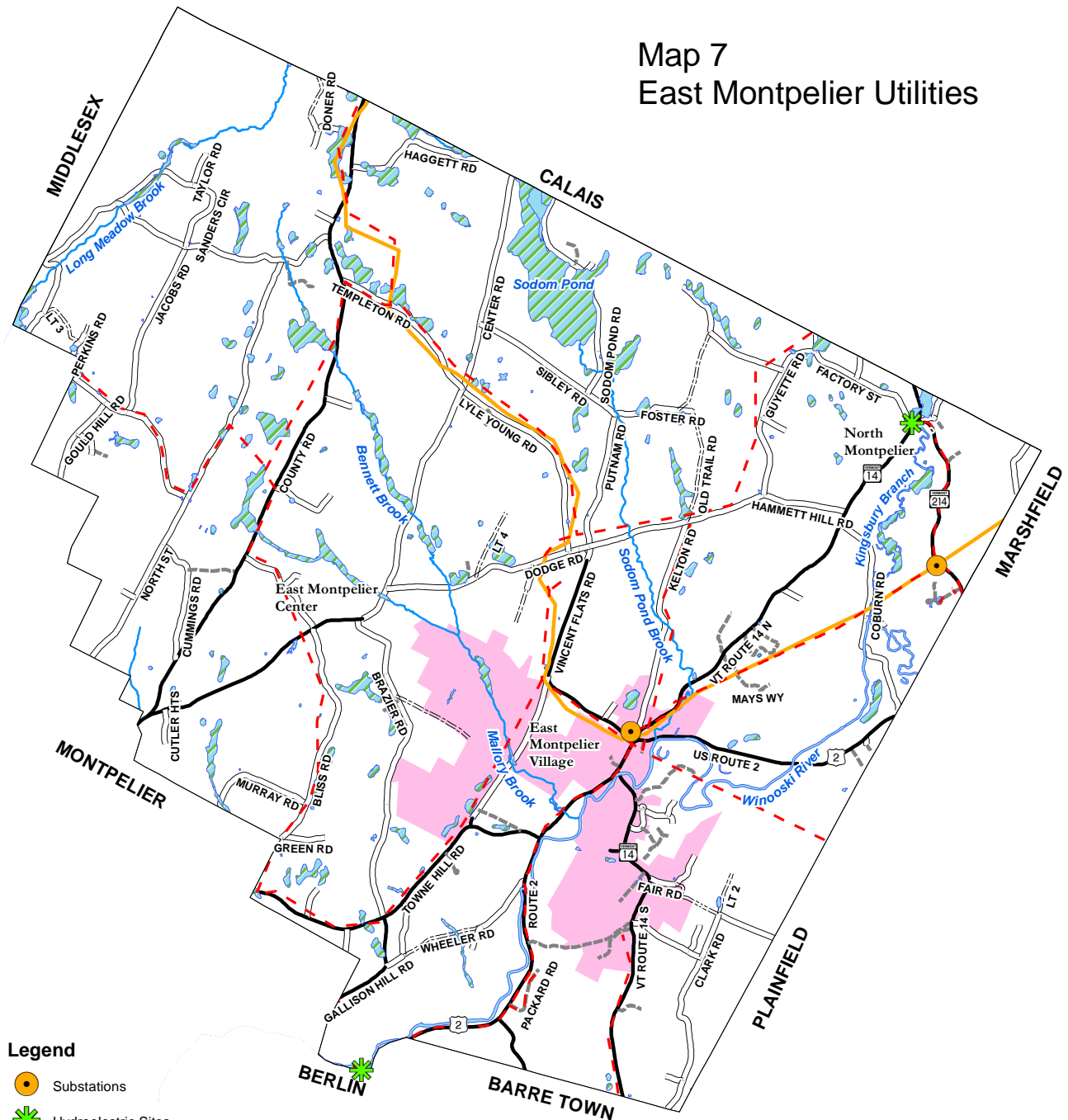
SOURCE:
Roads: VTrans, 2017
Cross VT Trail, 2010

Data is only as accurate as its original source.
This map is for planning purposes only.
This map may contain errors and omissions.

Map 6 East Montpelier Village Sidewalks



Map 7 East Montpelier Utilities

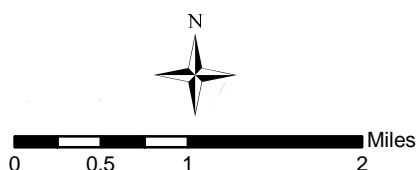


Legend

- Substations
- Hydroelectric Sites
- 3 Phase Power Lines
- Transmission Lines
- Crystal Springs Water Service Area
- Wetlands
- Rivers, Lakes, and Ponds
- Streams

Roads

- Paved
- Gravel
- Class 4/Legal Trail
- Private

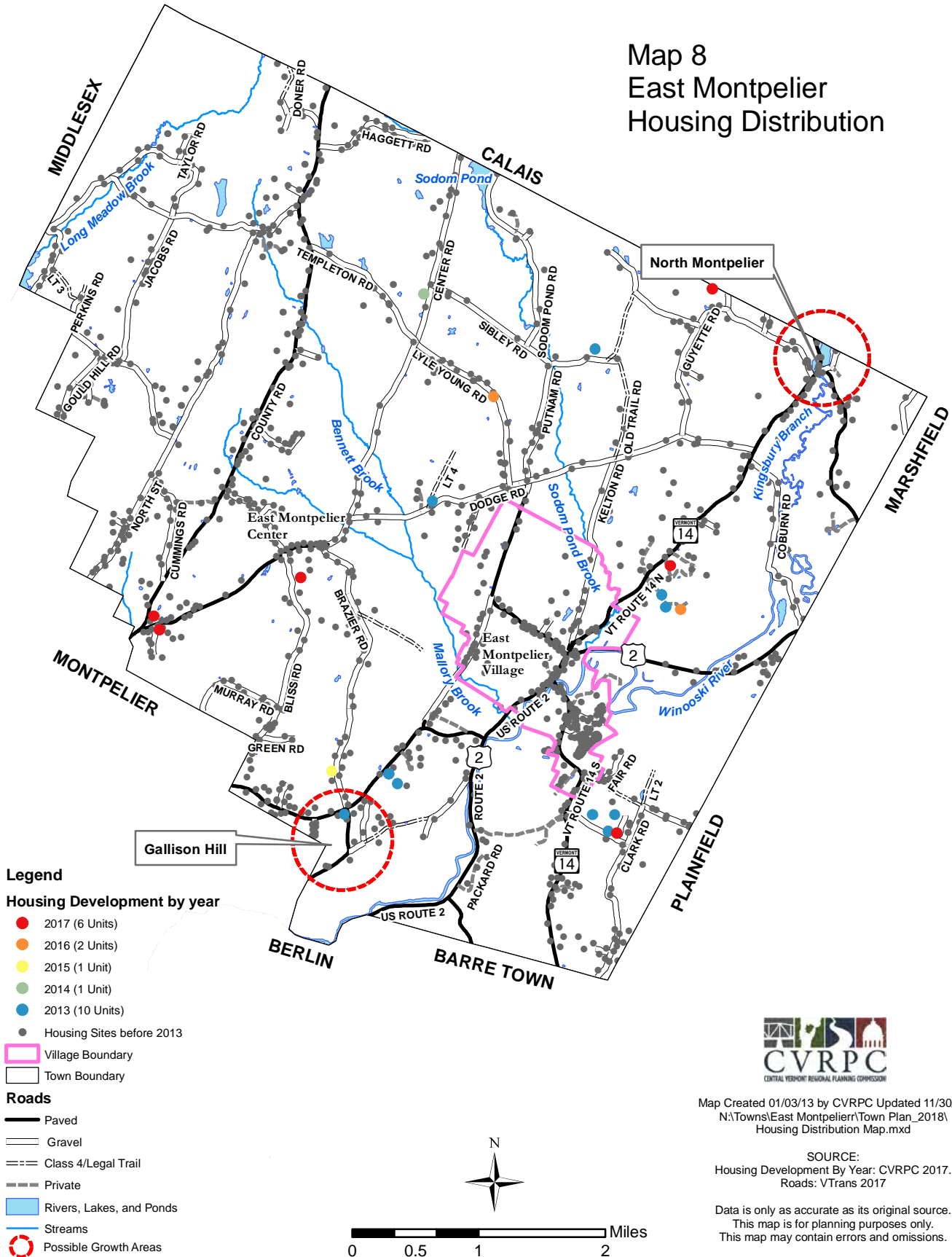


Map Created 12/22/17 by CVRPC
N:\Towns\EastMontpelier\Town Plan_2018\Utilities.mxd

Source:
Hydroelectric Sites, 3 Phase Power and
Transmission Lines, VCGI 2016
Substations: VCGI, 2016 and CVRPC 2017
Water Service Area, CVRPC 2016
Parcels- 2015 East Montpelier

Data is only as accurate as its original source.
This map is for planning purposes only.
This map may contain errors and omissions.

Map 8 East Montpelier Housing Distribution

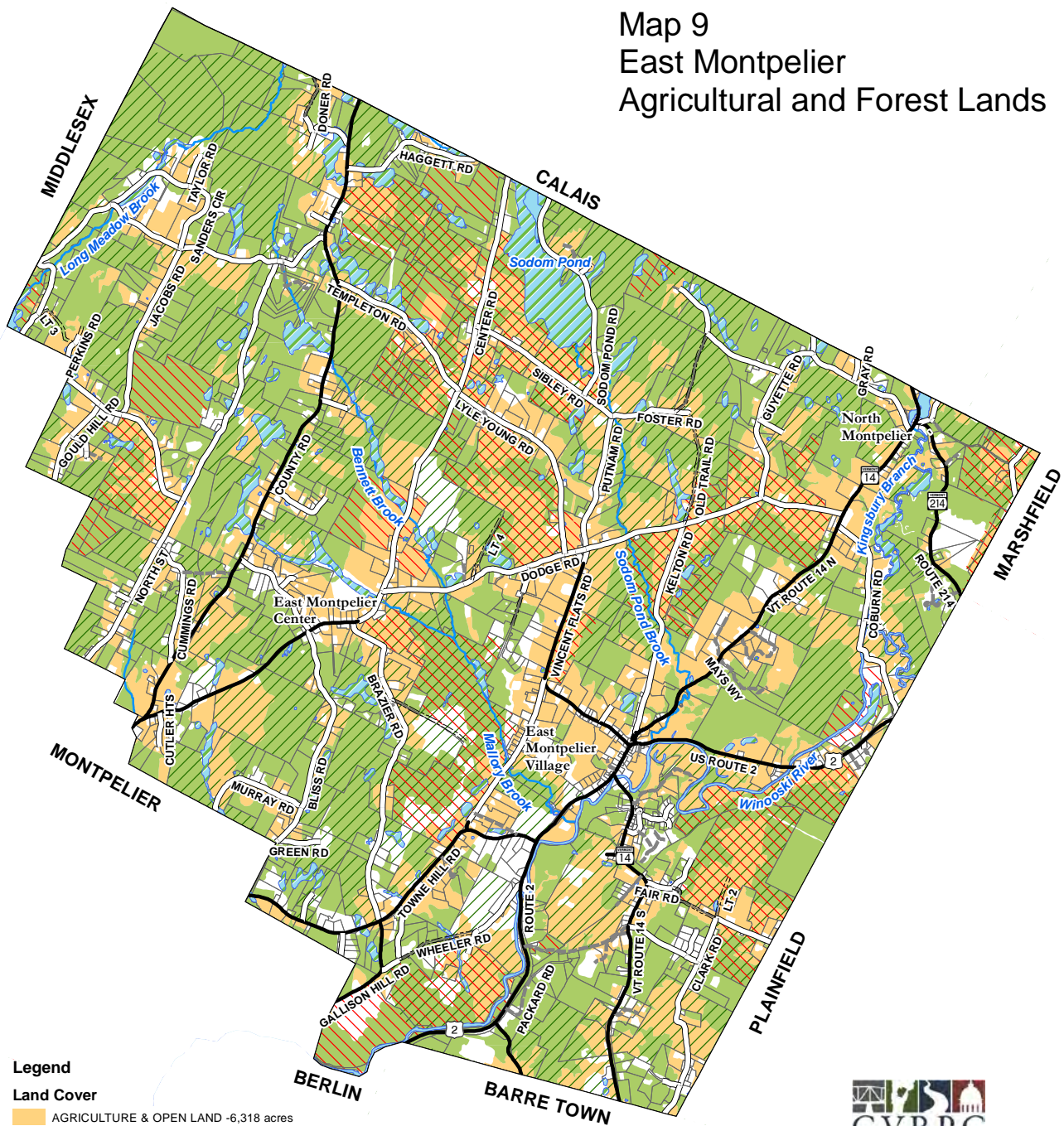


Map Created 01/03/13 by CVRPC Updated 11/30/17
N:\Towns\East Montpelier\Town Plan_2018\
Housing Distribution Map.mxd

SOURCE:
Housing Development By Year: CVRPC 2017.
Roads: VTrans 2017

Data is only as accurate as its original source.
This map is for planning purposes only.
This map may contain errors and omissions.

Map 9 East Montpelier Agricultural and Forest Lands



Legend

Land Cover

- AGRICULTURE & OPEN LAND - 6,318 acres
- FOREST LAND - 11,419 acres
- Conserved Properties - 4,401 acres
- Current Use Properties - 10,508 acres

- Parcels
- Wetlands
- Rivers, Lakes, and Ponds
- Streams

Roads

- Paved
- Gravel
- Class 4/Legal Trail
- Private



Map Created 11/29/17 by CVRPC
N:\Towns\EMontplr\Town Plan_2018\Ag&ForestLands.mxd

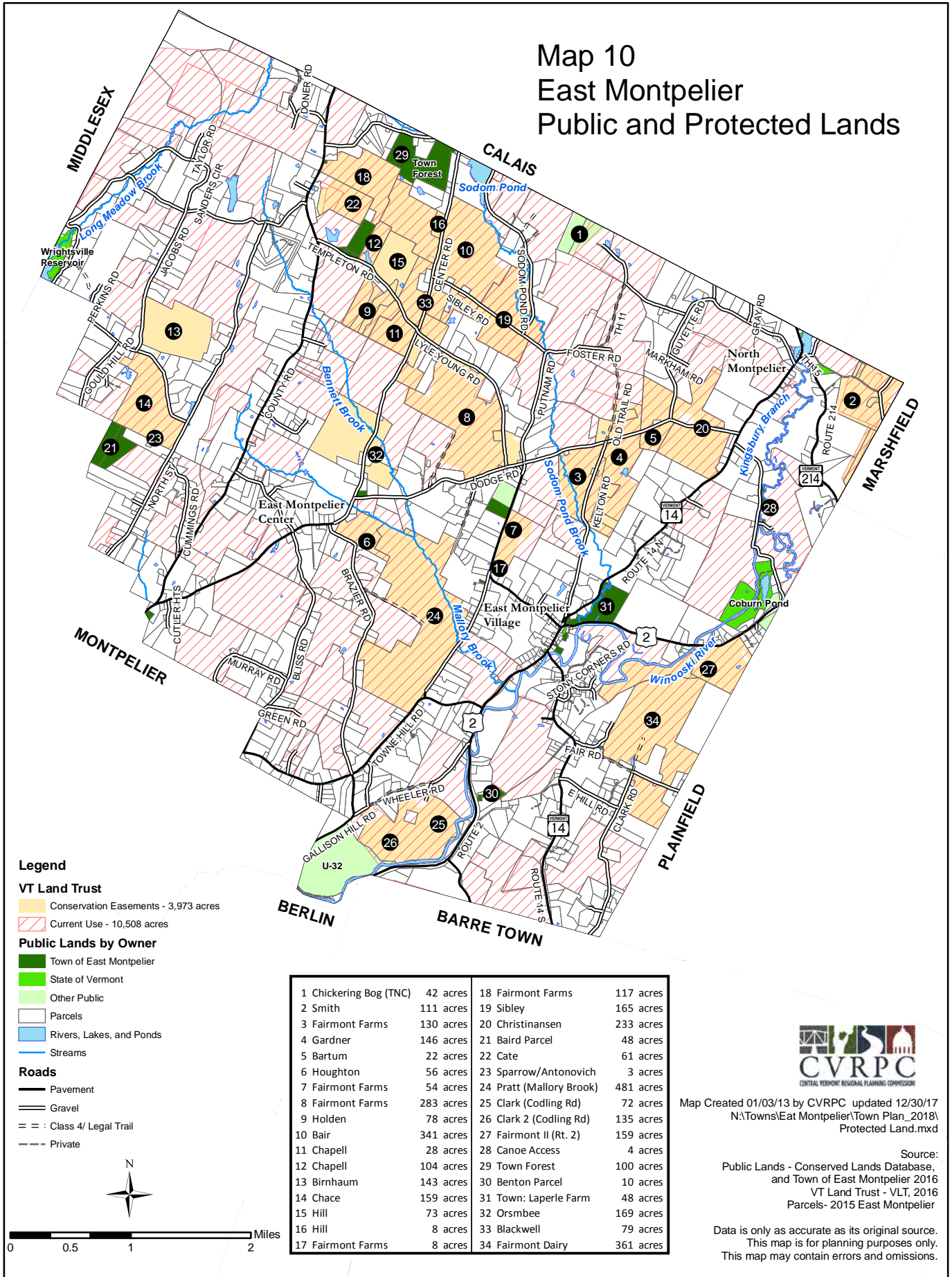
Source:
Conserved Properties - Conserved Lands Database, 2009, and Town of East Montpelier, 2017
VT Land Trust - VLT, 2016
Parcels- 2015 East Montpelier
Land cover - CVRPC, 2013

Data is only as accurate as its original source.
This map is for planning purposes only.
This map may contain errors and omissions.



0 0.5 1 2 Miles

Map 10 East Montpelier Public and Protected Lands



Map 11 East Montpelier Significant Forest Blocks, Habitat Connectors and Physical Landscapes

Legend

- Highest Priority Forest Blocks (Interior & Connectivity) - 1,047 acres
- High Priority Forest Blocks (Interior & Connectivity) - 2,550 acres
- Important Physical Landscapes
- Highest Priority Wildlife Crossings
- Priority Wildlife Crossings
- Conserved Properties - 4,401 acres
- Current Use Properties - 10,508 acres
- Town Boundary
- Wetlands
- Rivers, Lakes, and Ponds
- Streams

Roads

- Paved
- Gravel
- Class 4/Legal Trail
- Private



0 1 2 Miles

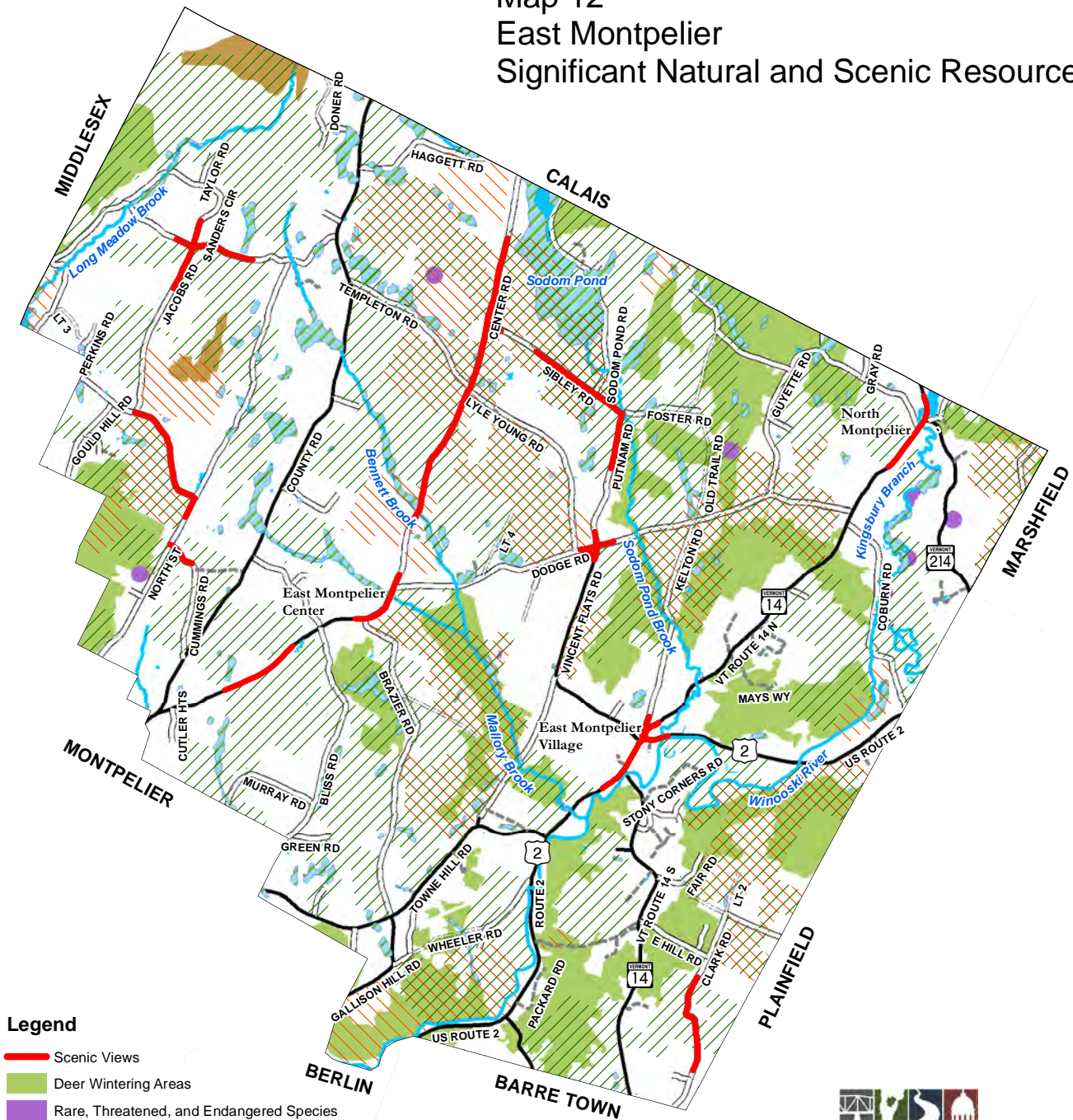


Map created 8/31/17 by CVRPC
Revised 12/27/17
N:\Towns\Town Plan_2018\Forest Integrity.mdx

SOURCE:
Habitat Forest Blocks, Wildlife Crossings, and
Physical Landscapes: VT Biofinder, 2016
Surface Waters, Vermont Hydrography
Dataset, VCGI, 2008
Roads: VTrans, 2017
VLT Conserved Lands: VCGI, 2016
Town and State Conserved Lands: VT Conserved
Lands Database, VCGI, 2009

Data is only as accurate as its original source.
This map is for planning purposes only.
This map may contain errors and omissions.

Map 12 East Montpelier Significant Natural and Scenic Resources



Legend

- Scenic Views
- Deer Wintering Areas
- Rare, Threatened, and Endangered Species
- Conserved Properties - 4,401 acres
- Current Use Properties - 10,508 acres
- High Elevation Overlay District - 165 acres
- Wetlands
- Rivers, Lakes, and Ponds
- Streams

Roads

- Paved
- Gravel
- Class 4/Legal Trail
- Private



0 0.5 1 2 Miles

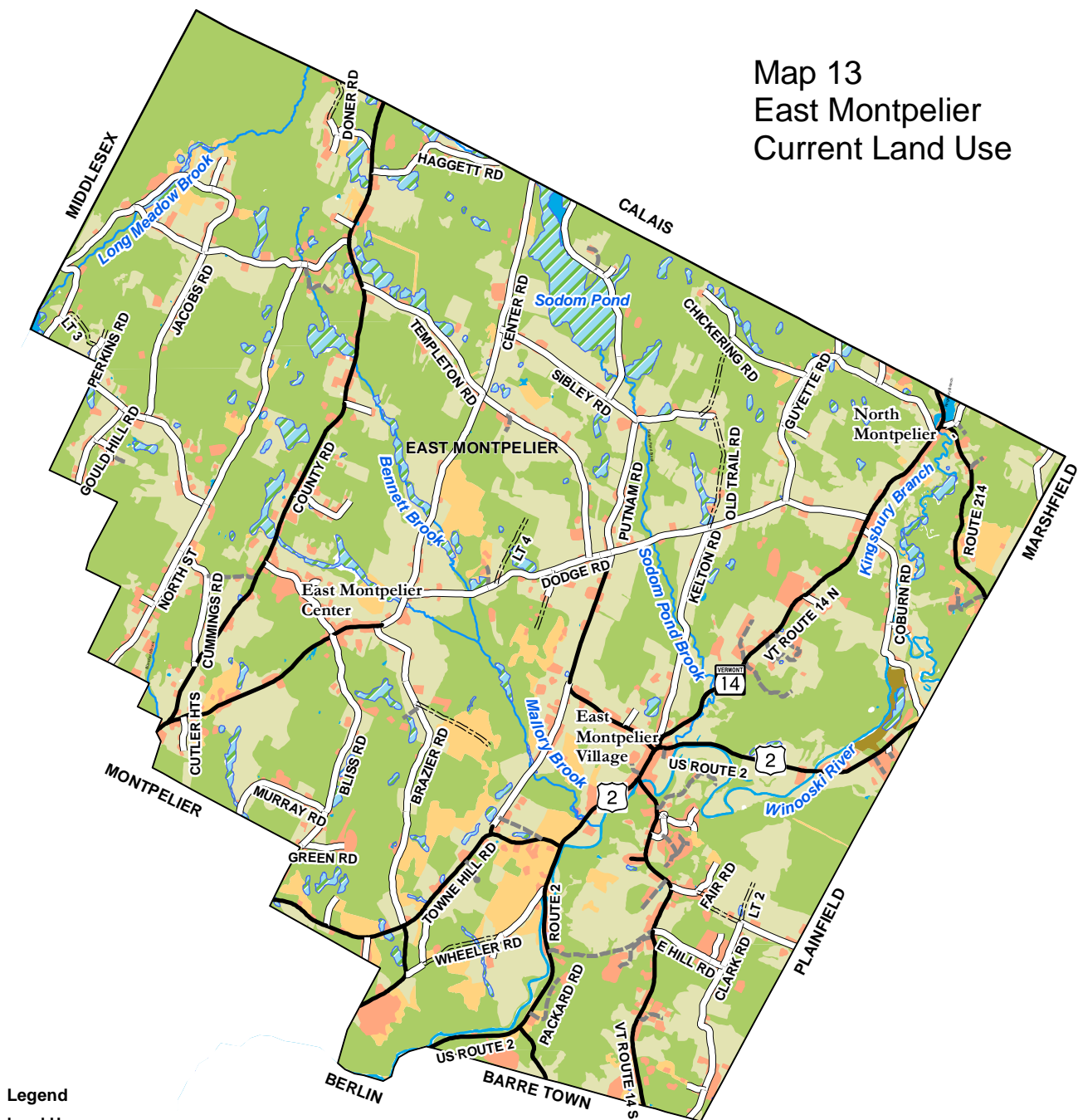


Map Created 11/30/2017 by CVRPC
N:\Towns\East Montpelier\Town Plan_2018\
Significant Natural and scenic resources.mxd

SOURCE:
Rare Threatened and Endangered Species Data: VTANR, 2010.
Deer Wintering Areas: VTANR 2010.
Roads: VTrans 2017.
Wetlands: VSWI, VTANR, 2010.
Surface Waters: CVRPC Surface Water Data, 1993.

Data is only as accurate as its original source.
This map is for planning purposes only.
This map may contain errors and omissions.

Map 13 East Montpelier Current Land Use



Legend

Land Use

- AGRICULTURE & OPEN LAND -6318 acres
- DEVELOPED LAND -1332 acres
- FOREST LAND -11419 acres
- OUTDOOR RECREATION - 3.5 acres
- SAND & GRAVEL PITS- 36 acres
- SCRUB/SHRUB -1098 acres
- Wetlands
- Rivers, Lakes, and Ponds
- Streams
- Town Boundary

Roads

- Paved
- Gravel
- Class 4/Legal Trail
- Private



0 1 2 Miles



Map created 10/31/17 by CVRPC
N:\Towns\East Montpelier\Town Plan_2018\
Current Land Use.mdx

SOURCE:
Roads: VTrans, 2017
Land Cover: CVRPC, 2013

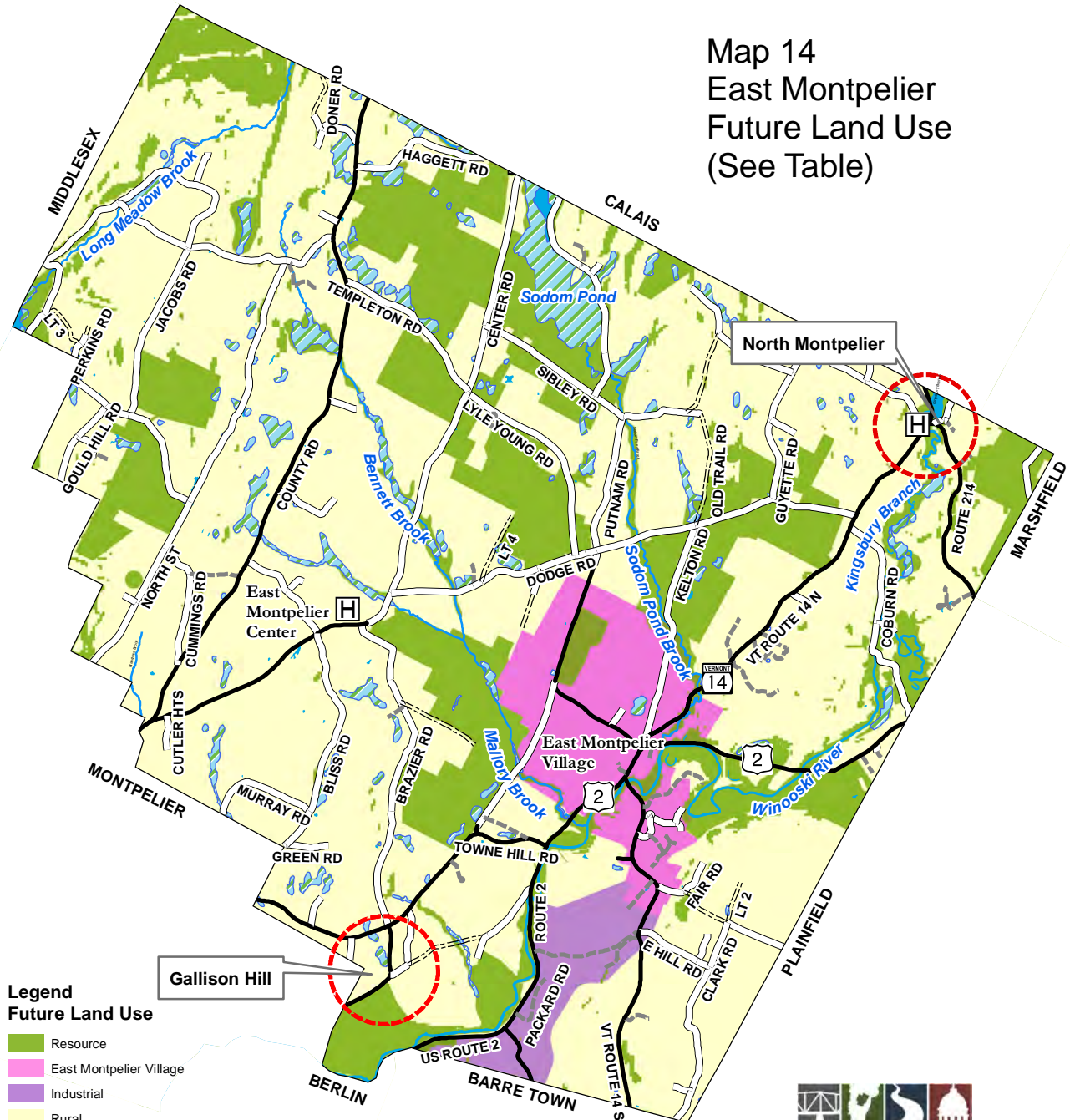
Data is only as accurate as its original source.
This map is for planning purposes only.
This map may contain errors and omissions.

Future Land Use Map Areas

(As defined by the 2016 Central Vermont Regional Plan)

- **Villages** accommodate many residential, civic, commercial and light industrial uses. Factors in determining the presence and boundaries of a village include: a state-designated village center, local road network and availability of public utility infrastructure, relatively dense development and smaller lot sizes (1 unit per acre or higher), a mix of land uses, and a distinct separation from surrounding rural areas. The boundaries for East Montpelier Village on this map are based on the village master plan.
- **Hamlets** are smaller than villages, and are typically concentrated residential settlements woven into the fabric of rural areas. Hamlets may or may not provide minor commercial and civic services. North Montpelier and East Montpelier Center are shown as hamlets on this map.
- **Rural areas** include prime agricultural soils, forest blocks, low-density residential, small-scale commercial and industrial uses, and recreational uses.
- **Industrial areas** are where existing and future commercial and industrial activities are encouraged. East Montpelier's existing Industrial zoning district is depicted as an industrial area.
- **Resource areas** require special protection or consideration due to their uniqueness, irreplaceable or fragile nature, or important ecological function. Resource areas include: conserved lands; slopes of 25% or more; rare, threatened or endangered species; significant natural communities; wetlands, special flood hazard areas; and shoreline protection areas.

Map 14
East Montpelier
Future Land Use
(See Table)

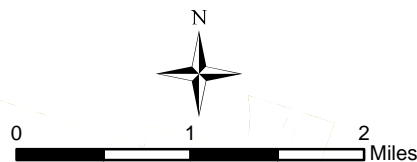


Legend Future Land Use

- Resource
- East Montpelier Village
- Industrial
- Rural
- H Hamlets
- Town Boundary
- Wetlands
- Rivers, Lakes, and Ponds
- Streams

Roads

- Paved
- Gravel
- Class 4/Legal Trail
- Private
- Possible Growth Areas



Map created 8/31/17 by CVRPC
Revised 1/2/18
N:\Towns\East Montpelier\Town Plan_2018\
Future Land Use.mdx

SOURCE:
Roads: VTrans, 2017
Village Boundary, CVRPC, 2017
Future Land Use: CVRPC, 2013, Village portion
based on Village Boundary, CVRPC, 2017





Data is only as accurate as its original source.
This map is for planning purposes only.
This map may contain errors and omissions.

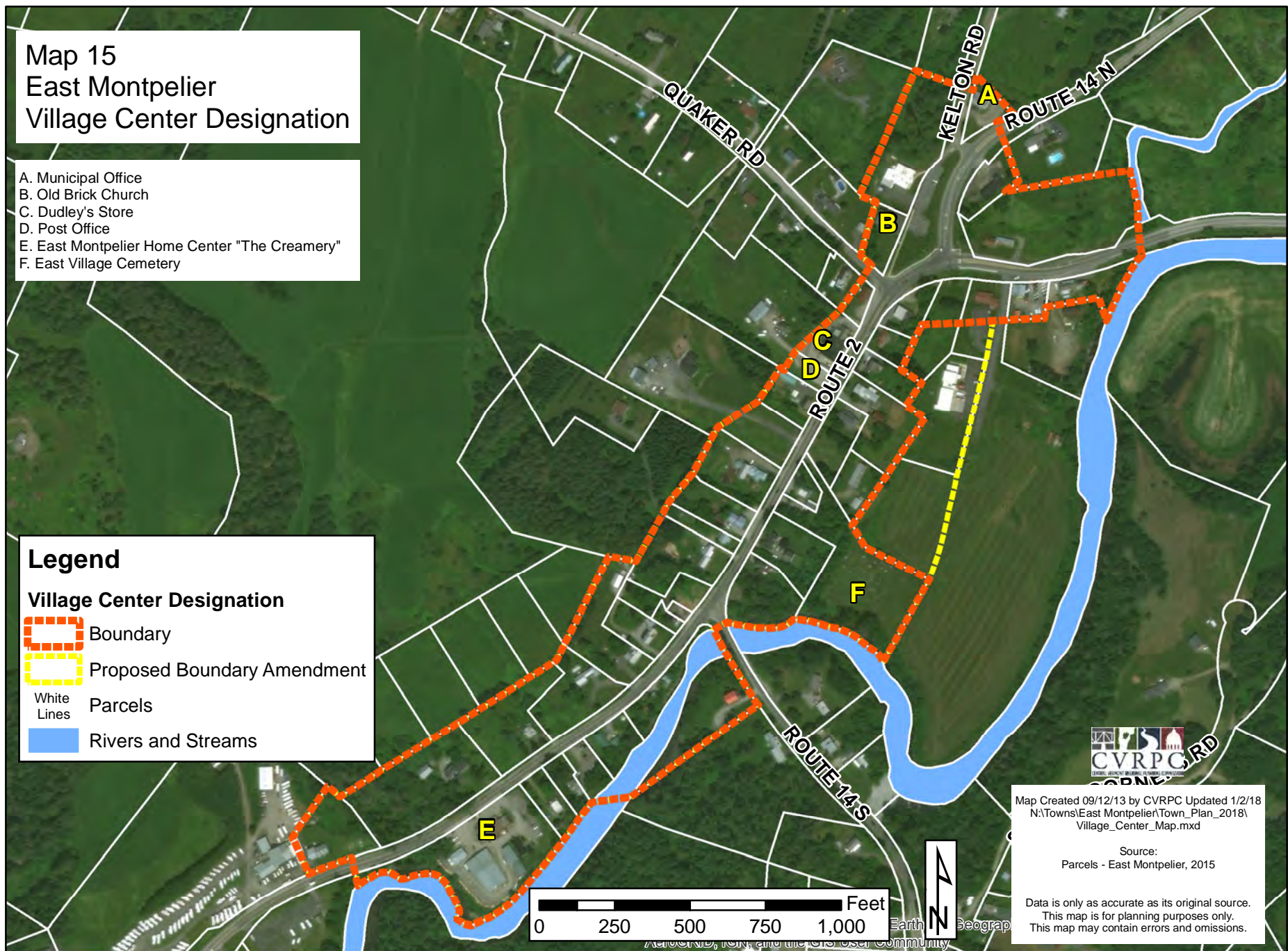
Map 15 East Montpelier Village Center Designation

- A. Municipal Office
- B. Old Brick Church
- C. Dudley's Store
- D. Post Office
- E. East Montpelier Home Center "The Creamery"
- F. East Village Cemetery

Legend

Village Center Designation

-  Boundary
-  Proposed Boundary Amendment
-  White Lines
Parcels
-  Rivers and Streams

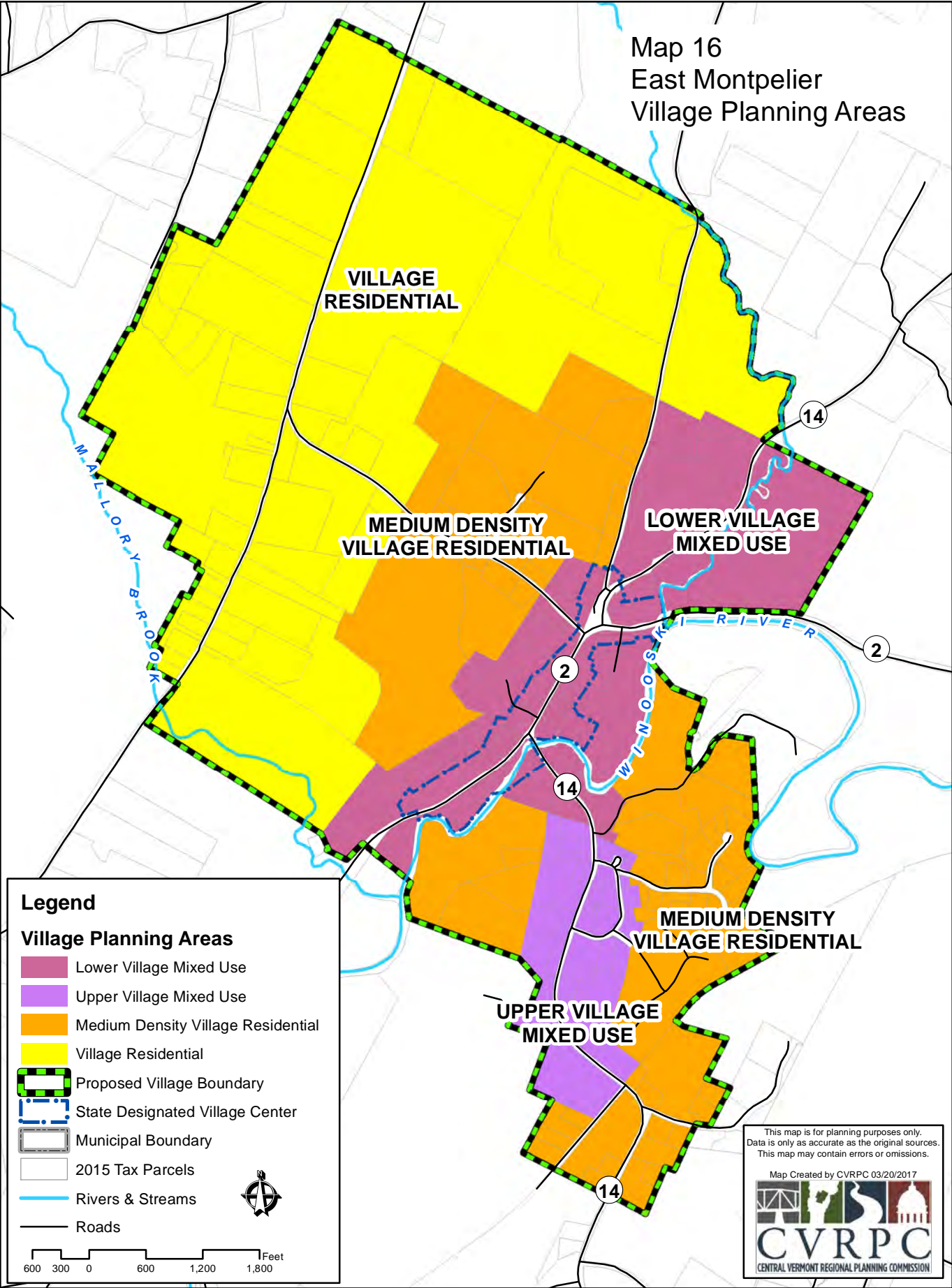


Map Created 09/12/13 by CVRPC Updated 1/2/18
N:\Towns\East Montpelier\Town_Plan_2018\
Village_Center_Map.mxd


Source:
Parcels - East Montpelier, 2015

Data is only as accurate as its original source.
This map is for planning purposes only.
This map may contain errors and omissions.

Map 16
East Montpelier
Village Planning Areas



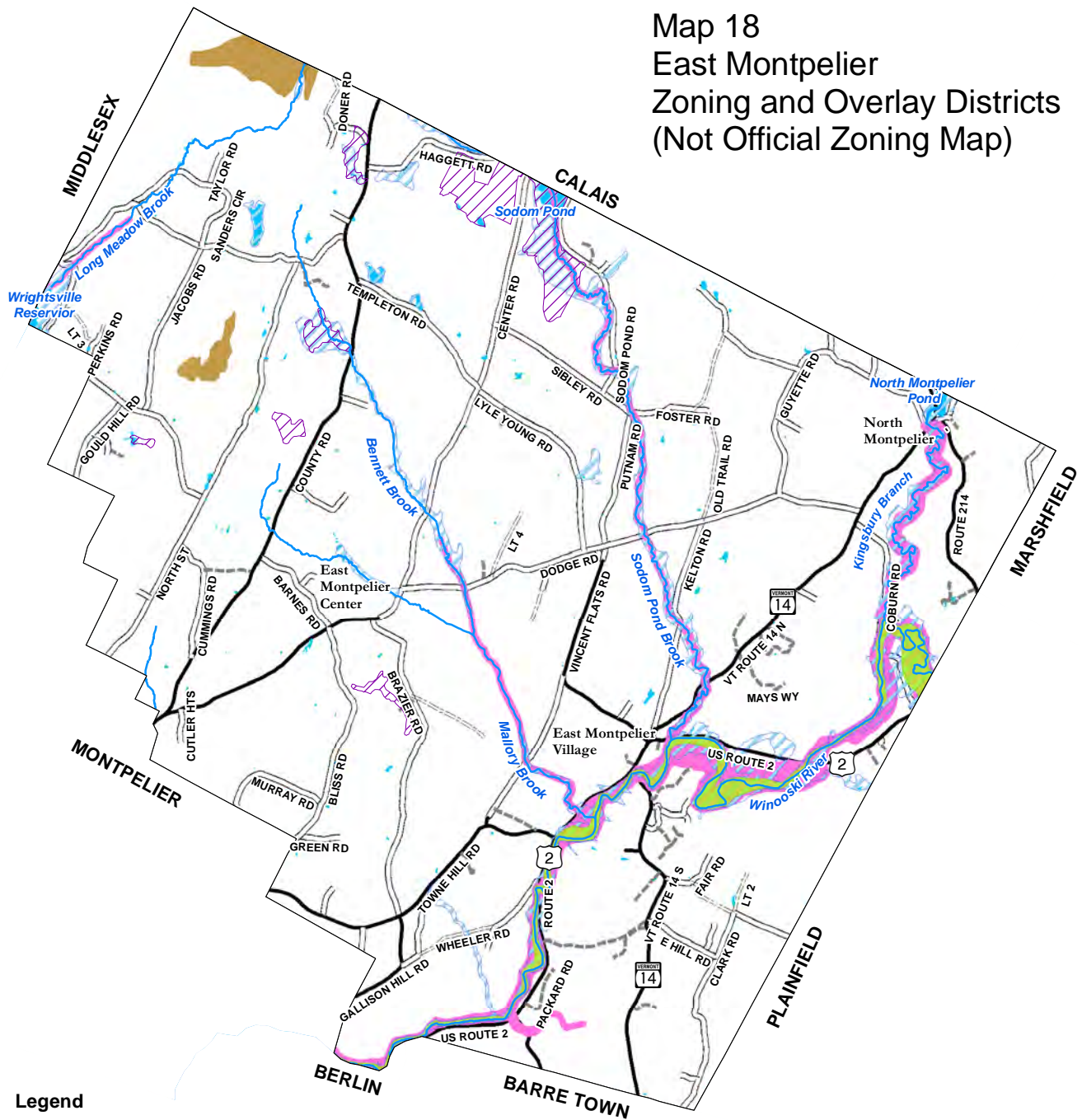
Map 17
East Montpelier
Zoning Districts 2015
(Not Official Zoning Map)


Map Created 01/03/13 by CVRPC; Updated 1/02/2018
N:\Towns\East Montpelier\Town Plan_2018\
Zoning Districts Map.mxd

Source:
Town Roads: VTrans, 2017.
East Montpelier Zoning: CVRPC, 2007.

Data is only as accurate as its original source.
This map is for planning purposes only.
This map may contain errors and omissions.

Map 18 East Montpelier Zoning and Overlay Districts (Not Official Zoning Map)



Legend

- Wetlands Overlay Protection District
- High Elevation Overlay District - 165 acres
- Floodway
- Special Flood Hazard Area
- River Corridor
- Rivers, Lakes, and Ponds
- Streams

Roads

- Paved
- Gravel
- Class 4/Legal Trail
- Private
- Town Boundary



0 0.5 1 2 Miles



Map Created 01/02/18 by CVRPC
N:\Towns\East Montpelier\Town Plan_2018\
Overlay Districts Map.mxd

Source:
Town Roads: VTrans, 2017.
East Montpelier Zoning: CVRPC, 2007.
Hydrologic Data: VHD - VCGI 2008
Wetlands: VSWI, VTANR 2010
Flood Hazard: FEMA, NFIP 2011

Data is only as accurate as its original source.
This map is for planning purposes only.
This map may contain errors and omissions.

2018 East Montpelier Town Plan



Moonrise over Sibley Barn (Tyler Debbs Squire)