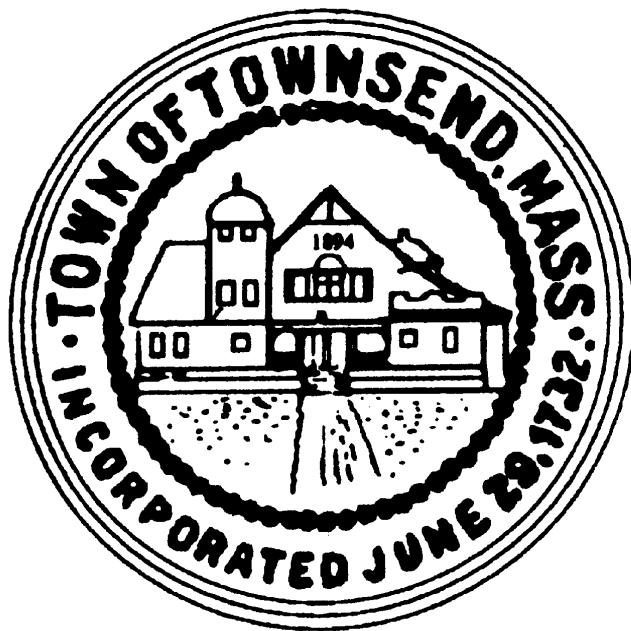


# **TOWNSEND**

## **OPEN SPACE AND RECREATION PLAN**

**2012**



## **TABLE OF CONTENTS**

<b><u>SECTION I: PLAN SUMMARY .....</u></b>	<b>4</b>
<b><u>SECTION II: INTRODUCTION .....</u></b>	<b>4</b>
2.1 STATEMENT OF PURPOSE.....	4
2.2 PLANNING PROCESS AND PUBLIC PARTICIPATION.....	6
<b><u>SECTION III: COMMUNITY SETTING.....</u></b>	<b>7</b>
3.1 REGIONAL CONTEXT .....	7
3.1.1. <i>Location and Physical context</i> .....	7
3.1.2. <i>Socio-Economic context</i> .....	7
3.1.3. <i>Shared Resources</i> .....	8
3.2 HISTORY OF THE COMMUNITY .....	10
3.3 POPULATION CHARACTERISTICS .....	13
3.4 GROWTH AND DEVELOPMENT .....	14
3.4.1 <i>Growth and Development Patterns</i> .....	14
3.4.2 <i>Infrastructure</i> .....	15
3.4.3 <i>Long-term Development Patterns</i> .....	18
<b><u>SECTION IV: ENVIRONMENTAL INVENTORY AND ANALYSIS .....</u></b>	<b>19</b>
4.1 TOPOGRAPHY, GEOLOGY, AND SOILS .....	19
4.1.1 <i>Topography</i> .....	19
4.1.2 <i>Geology</i> .....	20
4.1.3 <i>Soils</i> .....	21
4.2 LANDSCAPE CHARACTER .....	22
4.3 WATER RESOURCES .....	23
4.3.1 <i>Rivers, Streams and Wetlands</i> .....	23
4.3.2 <i>Flood Hazard Areas</i> .....	25
4.3.3 <i>Water Supply</i> .....	25
4.4 VEGETATION .....	26
4.4.1 <i>Forests</i> .....	26
4.4.2 <i>Open fields</i> .....	27
4.4.3 <i>Public Shade Trees</i> .....	27
4.4.4 <i>Unique Natural Resources</i> .....	28
4.5 FISHERIES AND WILDLIFE .....	28
4.6 SCENIC RESOURCES AND UNIQUE ENVIRONMENTS .....	30
4.6.1 <i>Scenic Landscapes and Geologic Features</i> .....	30
4.6.2 <i>Cultural and Historic Areas</i> .....	31
4.6.3 <i>Unique Environments - ACEC</i> .....	31
4.7 ENVIRONMENTAL PROBLEMS .....	33
4.7.1 <i>Hazardous Waste and Brownfield Sites</i> .....	33
4.7.2 <i>Landfills</i> .....	33
4.7.3 <i>Erosion and Sedimentation</i> .....	34
4.7.4 <i>Chronic Flooding</i> .....	34
4.7.5 <i>Septic Systems</i> .....	34
4.7.6 <i>Stormwater</i> .....	34
4.7.7 <i>New Development</i> .....	35
4.7.8 <i>Ground &amp; Surface Water Pollution</i> .....	35
4.7.9 <i>Impaired Water Bodies</i> .....	36
4.7.10 <i>Forestry Issues</i> .....	36
4.7.11 <i>Invasive Species</i> .....	36
4.7.12 <i>Environmental Equity Issues</i> .....	36
<b><u>SECTION V: INVENTORY OF LANDS OF CONSERVATION AND RECREATION INTEREST.....</u></b>	<b>37</b>
5.1 PRIVATE PARCELS .....	38

<i>5.1.1 Chapter 61 – Forest lands .....</i>	38
<i>5.1.2 Chapter 61A – Agricultural lands.....</i>	38
<i>5.1.3 Chapter 61B – Recreation lands.....</i>	39
<i>    5.1.4 Private Parcels with Restrictions.....</i>	39
5.2 PUBLIC AND NON-PROFIT PARCELS .....	40
TABLE 5.1 PRIVATELY OWNED PARCELS .....	41
TABLE 5.2 PUBLIC AND NON-PROFIT PARCELS .....	44
<b>SECTION VI: COMMUNITY VISION .....</b>	<b>53</b>
6.1 DESCRIPTION OF PROCESS.....	53
6.2 STATEMENT OF OPEN SPACE AND RECREATION GOALS .....	53
<b>SECTION VII: ANALYSIS OF NEEDS .....</b>	<b>54</b>
7.1 SUMMARY OF RESOURCE PROTECTION NEEDS .....	54
7.2 SUMMARY OF COMMUNITY'S NEEDS .....	54
7.3 MANAGEMENT NEEDS, POTENTIAL CHANGE OF USE.....	55
7.4 COMMUNITY NEEDS IN RELATION TO SCORP .....	55
<b>SECTION VIII: GOALS AND OBJECTIVES .....</b>	<b>56</b>
<b>SECTION IX: SEVEN-YEAR ACTION PLAN .....</b>	<b>59</b>
<b>SECTION X: REFERENCES.....</b>	<b>69</b>
<b>APPENDIX A: .....</b>	<b>71</b>
SUMMARY OF SURVEY RESPONSES .....	82
OPEN SPACE & RECREATION SURVEY COMMENTS 11/17/2010 .....	85
<b>APPENDIX B: .....</b>	<b>96</b>
MASSACHUSETTS NATURAL HERITAGE AND ENDANGERED SPECIES INFORMATION .....	96
<b>APPENDIX C: .....</b>	<b>106</b>
HAZARDOUS WASTE SITES AND SPILLS .....	106
<b>APPENDIX D: .....</b>	<b>110</b>
PUBLIC FORUM ANNOUNCEMENT .....	111
PUBLIC FORUM MINUTES.....	112
PUBLIC FORUM SLIDE SHOW PRESENTATION .....	114
<b>APPENDIX E: .....</b>	<b>120</b>
LETTERS OF COMMENT FROM TOWN BOARDS.....	120
<b>APPENDIX F: .....</b>	<b>125</b>
AMERICANS WITH DISABILITIES ACT SELF-EVALUATION.....	125
<b>APPENDIX G: .....</b>	<b>126</b>
MAP 1: REGIONAL CONTEXT .....	126
MAP 3: ZONING DISTRICTS.....	126
MAP 4: SOILS AND GEOLOGIC FEATURES .....	126
MAP 5: SURFACE WATER RESOURCES.....	126
MAP 6: FEMA FLOODPLAINS .....	126
MAP 7: WATER SUPPLY RESOURCES .....	126
MAP 8: NHESP PRIORITY HABITAT OF RARE SPECIES.....	126
MAP 9: NHESP BIOMap2 AREAS .....	126
MAP 10: UNIQUE AND SCENIC FEATURES.....	126
MAP 11: ENVIRONMENTAL ISSUES .....	126
MAP 12: OPEN SPACE AND CHAPTER 61 LANDS.....	126

MAP 13: ACTION PLAN.....	126
--------------------------	-----