

4-2-26

1 *VERSION TRACKING:*

2 *2/18 – fixed the question about Kenneth Andrews; brought Forestry and Ag into this doc within one section,*  
3 *editing each to fit the format. 2/19 - Sam: added formatting, comments, rec & education sections*

4 *3/11 - Sam edits: added eco section and eco/rec appendix 3-14 – Brad edits for organization, consistency,*  
5 *clarity 3-19 – stripped of agreed-upon comments, fleshed out & cleaned up References appendix section*

6 *3-25 Final parts of main section approved on 3-23, added here.” “References” split among Cultural and*  
7 *Eco/Rec appendices. MP history put in a separate document, with link to it in Governance appendix. Line*

8 *176 – “Andrews sisters” broadened to “Andrews family”. 3-30: Ian submitted comments and corrections*  
9 *for the Property Description, Governance and Cultural History appendices to Sam and Brad. 4-1 Brad*

10 *incorporates simple corrections into this draft as well as some comments for ACFC to resolve. 4-2 Brad*  
11 *makes a “clean” copy, retaining comments for discussion. Moves this long header onto page 1 and puts*

12 *the version date only in the header. Adds reference links provided by Ian.*  
13

14  
15 **Andrews Community Forest**  
16 **Management Plan**  
17 **Richmond, Vermont**  
18 **2026**



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**Management Plan**

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**Commented [BE1]:** Given the number of references to it in the text, its inclusion may be warranted. Or, the links we provide may be sufficient.

**Commented [BE2]:** If these are taken out of above sections.

# Management Plan

## Introduction

### The land

The Andrews Community Forest (ACF) encompasses 428 acres of mostly south-facing, largely forested hillsides in Richmond, Vermont. The ACF abuts 6,000 acres of forestland within the 72,000-acre Mt. Mansfield Forest Block, all within the homeland of the Western Abenaki people. Elevations of the ACF range from 400 feet at the parking lot to 1,240 feet in the northeast corner.

Much of the ACF has earned high priority rankings for conservation from Vermont’s Agency of Natural Resources. The southerly aspect supports a rich complex of upland and wetland natural communities, including several uncommon and sensitive ones. The forest is located within the homeland of the Western Abenaki people, who for generations used the forest as a source of food, timber and refuge. Subsequent generations of European settlers and their descendants developed logging roads, utility rights-of-way and recreational trails that today continue providing a wide range of users with access to the forest’s resources as well as to adjacent properties.

### Acquisition, management and foundational principles

Through the generosity of the Andrews family, the ACF’s previous owners, the Town of Richmond acquired the property in 2018 with additional assistance from the Vermont Land Trust (VLT), the Vermont Housing and Conservation Board (VHCB) and many private individuals and organizations. The Town signed a conservation easement with VLT and VHCB to protect the ACF’s ecological integrity and ensure public access in perpetuity. The Richmond Selectboard then appointed committees to use public and professional input to develop the forest’s interim and first management plans. The Selectboard approved [the original management plan](#) in 2019 to serve as a “living and evolving document” responsive to the conservation agreement’s requirements, new conditions on the ground and new information on the best management practices.

That original plan opened the way for the Town to begin expanding the recreational trail network and using forestry management techniques to restore and improve the ecological health of certain areas. An agreement was reached acknowledging the Abenaki people’s right to use the Forest and contribute to its management. The ACF Committee developed vision and mission statements to serve as foundational principles for its work. As the Committee’s knowledge and experience grew, it began updating the original plan to reflect additional public input and scientific research.

In 2026 that update – this document – was approved by the Selectboard and Vermont Land Trust. It, too, is a “living and evolving” document, part of an ongoing cycle of evaluation, adjusting, planning and actions to

77 inform future updates and revisions.

78

79 **Using this plan**

80 The ACF Management Plan is organized to give the public easy access to the objectives and actions that govern  
81 and guide the various uses of the forest. Those are followed by several appendices providing key background  
82 information, including detail on the ACF's ecological features and cultural history as well as its governance by  
83 the Town. Links to additional background material can be found on the ACF Committee's webpage<sup>1</sup>.

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<sup>1</sup> <https://www.richmondvt.gov/boards-meetings/andrews-community-forest>

85 **Public Access**

86

87 The one basic, abiding rule for use of the ACF is respect – not only for other people using and enjoying it but  
88 also for the many plants and animals that make it their home and keep the Forest a forest.

89

90 The ACF Conservation Easement guarantees the public full access to the ACF according to the Easement’s  
91 terms and the provisions of the management plan. In general, access must be by non-motorized means, such as  
92 hiking, walking, snowshoeing, hunting and wildlife observation. The Easement also allows snowmobiling and  
93 non-motorized recreation such as mountain biking if consistent with the Easement’s several “Purposes” and  
94 regulated by the management plan. Forestry and agriculture must also comply with those Purposes as well as  
95 their own particular plans and State standards.

96

97 The ACF website lists the latest specific rules and guidelines for responsible, sustainable use and enjoyment of  
98 the forest. They are designed to maintain, protect and expand and perpetuate traditional uses such as hiking and  
99 hunting while also creating opportunities for newer activities such as mountain biking. The website also lists  
100 online sources for the latest information on trail conditions, including temporary closures due to user safety  
101 concerns and the need to protect trail surfaces and seasonally sensitive natural communities.

102

103 Maps of the forest are posted and available for download at the ACF and on the forest’s webpage. Many parts of  
104 the forest are steep and rugged, and it’s easy to lose one’s bearings. We urge all users to use maps, apps and GPS  
105 to find their way, stay safe and avoid the most ecologically sensitive areas.

106

107 **Governance**

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109 As a municipally owned property, the Town of Richmond Selectboard is ultimately responsible for the  
110 management and stewardship of the Community Forest on behalf of all of Richmond’s citizens. It has  
111 delegated this responsibility to the Andrews Community Forest Committee, which is appointed by the  
112 Selectboard. The Conservation Commission and Trails Committee each nominate a member and a non-  
113 member for appointment to the ACFC.

114

115 **Goals**

- 116 ● Protect the ACF’s ecological integrity and functions while providing meaningful public  
117 recreational, educational and other appropriate community uses
- 118 ● Increase the community’s knowledge and understanding of the forest and its inhabitants
- 119 ● Create and execute legal agreements that allow the forest to provide an enjoyable user experience,  
120 conserve its resources, and enable utilities and other ACFC partners to carry out their necessary  
121 work in the Forest.
- 122 ● Represent the Town and the needs and interests of all its residents

123

124 **Actions**

- 125 ● Represent the Town in decisions related to management of the Community Forest, with  
126 ultimate approval of the Selectboard.
- 127 ● Manage the ACF responsibly and in accordance with this Management Plan and the  
128 Conservation Easement, Richmond Town Plan and zoning regulations, and other  
129 applicable policies and legal agreements.
- 130 ● Act as a liaison with the Vermont Land Trust when input or approval is needed.
- 131 ● Lead the management planning process whenever updates are needed.
- 132 ● Establish and post rules and guidelines for visitor uses of the ACF that support the provisions of the  
133 Conservation Easement and the ACF Management Plan.
- 134 ● Provide regular opportunities for public education and enjoyment in the forest itself, and for  
135 engaging with the committee in the planning and management of this community-owned  
136 property.
- 137 ● Work with VELCO and GMP to understand and select vegetation management strategies in the  
138 powerline rights-of-way which are safe, effective, and environmentally responsible.
- 139 ● Communicate with the public about grazing plans or powerline management activities that may  
140 influence the public’s experience on the property.
- 141 ● Manage public use during powerline work or grazing periods to mitigate public safety hazards.
- 142 ● Update this plan at least every ten years to keep it current with the forest’s and community’s  
143 changing needs, and evolving science and technologies.

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146 **More information**

147 See Appendix \_\_, Governance.

148

## **Cultural History**

Richmond is located within Ndaquinna (in-DAH-kee-NAH), the homeland of the Western Abenaki people, also known as the Original People. They have a unique connection to this land and have been its traditional caretakers for hundreds of years, at least since the last Ice Age.

European settlers arrived in the Richmond area in the 1770s. Starting around 1800, the current forest was farmed by a succession of owners. Evidence of their ownership can be seen in stone foundations, cellar holes and walls scattered throughout the forest. In 1923 the land was purchased by Clarence Andrews. For the next decades it supported a dairy farm, timber harvesting and a country inn. Hunters, hikers and snowmobilers were welcome on the property. It remained in the Andrews family until 2018, when its surviving owners, four sisters, sold it at a below-market price to become Richmond's first community forest.

### **Goals**

- Recognize and broaden awareness of the cultural history of the forest and its context within and beyond Richmond.
- Protect remaining cultural features.
- Honor and respect the Abenaki people through responsible forest management and sustainable land uses.
- Continue to expand and enhance the information known about the forest's human history.

### **Actions**

- Protect and highlight remaining cultural features in the forest.
- Incorporate traditional Abenaki ecological knowledge into our management practices
- Add interpretive signage about Gray Rocks Farm\* in the forest, especially at historic sites.
- Encourage future research and study of the forest's cultural history, particularly with local schoolchildren.
- Conduct and record interviews with community elders who remember Andrews Farm.
- Place buffers on main trails located near cultural resources; consider access to cultural resources via spur trails.
- Work with the Andrews family to host programs and tours about the cultural resources of the farm.

### **More information**

\*See Appendix \_\_, Cultural History and Appendix \_\_\_\_, Indigenous Land Acknowledgement

## 183 **Ecology**

184 These objectives and actions address the ACF from three ecological perspectives — landscape, community and  
 185 species — following the organization of the Vermont Agency of Natural Resources publication *Conserving*  
 186 *Vermont's Natural Heritage*. See Appendix \_\_, The ACF for People and Wildlife, for background information  
 187 about this section.

### 189 **Landscape-Level**

#### 190 **Goals**

- 191 • Maintain the ACF's ecological integrity, biodiversity and functionality, including its status as “High Priority”  
 192 and “Priority” interior forest and connectivity components of Vermont Conservation Design.
- 193 • Preserve interior forest health and connectivity to support black bears, bobcats, moose, fishers, ovenbirds,  
 194 hermit thrushes and other deep-forest species.
- 195 • Protect neighboring properties' landscape-scale ecological integrity and pursue opportunities to conserve and  
 196 connect wildlife habitats.
- 197 • Protect soils, natural vegetation, water quality and natural climate change resilience through measures shown  
 198 to control erosion and prevent washouts from soil disturbances on all slopes. Restrict the disturbance of any  
 199 soil or duff layers on slopes over 35 percent. Monitor existing trails on those slopes for damage and erosion,  
 200 and take restorative measures that could include closures.

#### 202 **Actions**

- 203 • Designate Southern and Northern Management Zones within the forest. These zones are separated by an east-  
 204 west corridor composed of the former VAST trail and the powerline corridor. Specifically, the dividing line  
 205 follows the northernmost edge of either the former VAST trail or the powerline corridor.
- 206 • Maintain hiking, hunting, skiing, snowshoeing, birding, wildlife observation and other types of low-impact  
 207 recreation north of the former VAST trail, utilizing suitable existing forest roads where possible. Expand  
 208 recreational opportunities south of the former VAST trail to include new and improved trails for mountain  
 209 bikers, casual walkers, runners, elderly residents and school groups. (see Section \_\_ **Recreation**  
 210 **Management**).
- 211 • Work with the County Forester to implement the ACF Forestry Management Plan and enhance the ACF's  
 212 interior forest and wildlife connectivity values.
- 213 • Control the spread of invasive species through their removal and replacement with native vegetation.
- 214 • Develop a plan to reduce wildlife mortality along Route 2 crossings.
- 215 • Use public signage and events to educate visitors about ACF's ecological role.

217 **Community Level**

218 **Goals**

- 219 • Maintain the relative isolation and integrity of rare upland natural communities  
220 (e.g., Dry Oak Forest) to support the conservation needs of bears, bobcats, wild  
221 turkeys, hermit thrushes and other deep-forest, far-ranging species.  
222 • Protect wetland and aquatic habitats, including vernal pools, for diverse species  
223 such as salamanders and wood frogs.  
224 • Facilitate connectivity between upland and wetland habitats.



225 **Actions**

- 226 • Promote food, cover and structural diversity for terrestrial and aquatic species in  
227 upland and wetland natural communities.  
228 • Work with County Forester, UVM resources and professionals to ensure adequate amounts of shade and  
229 coarse, woody debris in streams and wetlands.  
230 • Assess and develop plans addressing these major challenges to the ACF's natural communities:  
231 • Invasive species  
232 • Tree and plant diseases  
233 • Climate change  
234 • Human impacts  
235 • Use signs and outreach tools to inform and involve the public in conserving the ACF's natural communities  
236 and the ecological processes and benefits they support.  
237 • Monitor the health of the ACF's natural communities and habitats.  
238 • Involve ACFC and public volunteers in a program combining field visits, camera and audio traps, and  
239 consultations with experts.  
240 • Utilize black bear, bobcat, and wild turkey as indicators of the overall biodiversity and health of the  
241 ACF.  
242 • Monitor wildlife activity utilizing cameras, microphones, etc. Seek advice on the monitoring plan from  
243 resources such as the Vermont Fish and Wildlife Department.  
244 • Maintain or enhance conditions for wildlife in and among the ACF's natural communities:  
245 • Utilize best management practices, including hunting, to manage the deer population.  
246 • Protect mast-producing areas from disturbances during fruiting and wildlife foraging seasons.  
247 • Monitor forest health and quantitative/qualitative changes to its habitats (see Appendix C).  
248

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**Species Level**

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**Goals**

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- Conserve rare, threatened, and endangered species by integrating updated information into management plans.

253

254

- Maintain the functionality of mature softwood cover for wildlife wintering and ensure nearby food sources.

255

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- Promote the health and viability of mast-producing trees and shrubs.

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- Enhance early successional habitats to diversify species and age structures.

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**Actions**

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- Engage ecologists to survey proposed trail routes and infrastructure areas for rare species within 50 feet of their sides and adapt conservation plans accordingly.

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- Maintain at least a 70 percent canopy within hemlock stands to preserve their utility as wildlife wintering areas by blocking enough wind and snow.

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- Maintain oak and other mast requirements of black bears, wild turkeys, white-tailed deer and other species. Avoid disturbing soft- and hard-mast stands areas during fruiting and foraging seasons.

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271

**More information**

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See Appendix \_\_, The ACF for People and Wildlife

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Figure\_: Hemlock stands shield deer and other wildlife from winter snows and winds, and also provide nesting spaces for interior forest birds such as the hermit thrush.

## 279 Recreation

280  
281 Andrews Community Forest Committee manages recreation with care to balance community interest in  
282 recreational opportunities with protection of the forest's ecological health. Outdoor recreation has long been and  
283 remains a highly valued tradition throughout the forest. With careful planning, we can offer meaningful access to  
284 nature while protecting the forest's most sensitive ecological features. Trails can fragment habitat and  
285 connectivity at certain scales, types, and volumes of use.

### 287 Goals

- 288 ● Provide inclusive, accessible recreational opportunities for hikers, walkers, bikers, hunters, runners,  
289 nature observers, skiers, snowshoers, and others of all ages and abilities.
- 290 ● Accommodate potentially conflicting recreational activities through strategies such as spatial zoning,  
291 seasonal scheduling, and tailoring approaches to the specific nature of each activity.
- 292 ● Promote trail connectivity to neighboring properties where ecologically appropriate and with landowner  
293 agreement.
- 294 ● Seek input from relevant community groups, town committees and the general public about decisions  
295 related to recreation to promote a culture of shared stewardship and education.
- 296 ● Design trails to highlight the forest's beauty while protecting wildlife corridors, riparian zones, steep  
297 slopes, vernal pools, and other ecologically sensitive features.

### 299 Actions

- 300 ● Promote recreational use on existing trails/skid roads and limit the creation of new trails except as needed  
301 to 1) bypass wet, steep, ecologically sensitive or otherwise unsuitable stretches of existing trails, 2)  
302 connect trail segments interrupted by acts of nature or forest management activities, 3) connect to trails on  
303 adjacent land where ecologically appropriate.
- 304 ● Site, build and maintain trails in keeping with this document's trail approval process and development  
305 parameters, and utilize the best practices from the Vermont Agency of Natural Resources guides, [Vermont](#)  
306 [Town Forest Stewardship Guide](#) and [Vermont Town Forest Trail Design Guide](#). Trail work will only be  
307 performed at the direction of the ACF committee.
- 308 ● Minimize trail density by consolidating trail footprints.
- 309 ● Develop and implement a plan for monitoring and responding to major changes in natural resources, trail  
310 conditions, and human traffic.
- 311 ● Utilize rest periods for monitoring after new trail development.
- 312 ● Restrict motorized traffic to comply with the easement.
- 313 ● Avoid constructing and maintaining trails in or near ecologically sensitive areas, buffering those locations  
314 from human disturbances as specified below in the Trail Development Parameters.
- 315 ● Designate two distinct management zones within the forest: a southern zone and a northern zone. These  
316 zones are separated by a boundary that follows an east-west corridor composed of the former VAST trail  
317 and the powerline corridor. Specifically, the dividing line should follow the northernmost edge of either  
318 the former VAST trail or the powerline corridor.

- 319 ● Designate trails in the northern zone as pedestrian only. Limit dogs and mountain bikers to the southern  
320 zone. Re-evaluate designations as usage data are collected and organized regarding mountain bikes, and  
321 amend the management plan accordingly.
- 322 ● Minimize trail stream crossings and avoid encroachment on riparian buffers. Site, build, and maintain  
323 bridges, culverts and boardwalks in accordance with best practices to maintain water quality and prevent  
324 erosion.
- 325 ● Monitor trail use and wildlife activity utilizing cameras, microphones, trail counters, sign-in sheets, etc.  
326 Seek advice on the monitoring plan from resources such as the Vermont Fish and Wildlife Department.
- 327 ● Adapt management of recreational trails as dictated by user volumes and their ecological impacts and  
328 using closures or reroutes where appropriate.
- 329 ● Create and maintain a positive working relationship with adjoining property owners in efforts to  
330 coordinate ACF's management goals with theirs.
- 331 ● Implement additional seasonal and weather related closures in designated areas to protect wildlife  
332 wintering areas, nesting/breeding sites, mast stands, wildlife connectivity routes, and fragile soils.
- 333 ● Create and maintain an up-to-date kiosk and signage with trail maps, safety guidance, regulations, and  
334 seasonal advisories (e.g., trail closures, wearing blaze orange, etc). Install signs at all trailheads and  
335 property access points. Include Indigenous land acknowledgments and use Abenaki names where  
336 appropriate.
- 337 ● Keep the public informed about trail conditions through the town website, Front Porch Forum, Times Ink!  
338 and other outlets.
- 339 ● Inspect trails and infrastructure on a yearly schedule and after major storm events. Track and respond to  
340 changes caused by human use and natural events.
- 341 ● Collaborate with the Richmond Trails Committee and other volunteers to help steward the trails by  
342 scheduling volunteer work days.
- 343 ● Establish an ACF contact email for the public to report trail maintenance needs, user conflicts, or wildlife  
344 concerns.
- 345 ● Maintain an up to date ecological resource map to guide decision-making and educate trail users.
- 346 ● Maintain a record of trail approvals, construction information, and any special stipulations or stewardship  
347 needs.
- 348 ● Create a Risk Management Plan to maximize safety for users (i.e., evacuation routes, emergency  
349 protocols, appropriate trail design for multiple users to share trails safely, alerts for when all hunting  
350 seasons are allowed move to recreation)

**Commented [3]:** moved from education "challenges" section, language changes slightly to fit objective format

### 352 **Trail Development Parameters**

353 The following parameters ensure protection of sensitive areas and wildlife, and promote responsible trail building.  
354 Trail development must follow the Vermont Town Forest Recreation Planning Natural Resources Guide.

#### 356 Wildlife Habitat Connectors

- 357 ● Identify, map and maintain major wildlife linkages to support habitat connectivity.
- 358 ● Prohibit any new trail construction within a 300 foot strict buffer zone around these habitat connectors.  
359 Exceptions may be allowed if in compliance with the Trail Deviation Review Process.

361 Riparian Areas

- 362 ● Avoid trail development within riparian zones (of perennial and intermittent streams) to protect water  
363 quality and aquatic ecosystems.
- 364 ● Where stream crossings are unavoidable, they must be minimal and perpendicular to the watercourse,  
365 and:
- 366 ○ Use bridges and boardwalks to cross streams.
  - 367 ○ Ensure proper crossing height to cover full bank width and provide adequate debris clearance  
368 beneath.
- 369 ● Buffer requirements from top of bank:
- 370 ○ Perennial - 100 feet
  - 371 ○ Intermittent - 50 feet
- 372

373 Wetlands & Vernal Pools

- 374 ● Prohibit trail development in and avoid trail development around wetland natural communities and vernal  
375 pools to protect habitat integrity and ecological functions.
- 376 ○ Class III: 50 foot buffer
  - 377 ○ Class II: 100 foot buffer
  - 378 ○ Vernal pools: 300 foot buffer
- 379 ● Close trails within 300 feet of Class II Wetlands in the spring (March 1st - May 31st) to protect vital  
380 habitat during periods of heightened wildlife vulnerability.
- 381

382 Ledges and Talus Slopes

- 383 ● Prohibit trail development within 100 feet of broken ledge and talus formations due to ecological  
384 sensitivity and erosion concerns.
- 385 ● Protect likely bobcat denning sites with 300 foot buffers.
- 386

387 Slope Guidelines

- 388 ● Prioritize soil integrity and erosion control.
- 389 ● Expedite and simplify new trail development by prioritizing new trails on terrain with slopes less than  
390 20% as identified in the map in Appendix D, page 4 (VT ANR Map).
- 391 ● Avoid trail development on slopes greater than 20%.
- 392

393 Sensitive Natural Communities

394 Protect sensitive natural communities (see easement EPZs) identified in ecological surveys by enforcing a 300  
395 foot buffer for:

- 396 ● Dry Oak
  - 397 ● Dry Red Oak–White Pine
  - 398 ● Dry Oak–Hickory–Hophornbeam
  - 399 ● Red Pine
- 400

401 Hemlock Stands

402 In the northern zone, close trails within Hemlock stands and the 300 foot buffer around them during winter  
403 months (December 1st - April 30th). This protects the critical roles these areas play in sheltering deer and other  
404 species from harsh weather.

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Forestry Reserve Zone

The ACF Forestry Management Plan (page 5) sets aside several parts of the ACF as “Zone 3” – defined as “essentially a reserve zone” where the forest is permitted to “grow and develop without human interference.” The parameters above protect most of these areas. However, in reserve zone areas not covered above, and per the Forestry Management Plan: “Recreational and forest management trails may cross this zone if no viable alternative exists to access a portion of the ACF, but should generally avoid these areas.”

**Trail Impact Evaluation Period**

New trail proposals are considered carefully and at deliberate intervals during defined planning windows. After any new trail or major reroute, that area of the forest enters a minimum three-year rest period to allow evaluation of impacts to soils, vegetation, and wildlife before additional projects are considered. The focus remains on maintaining and improving the existing trail system, while exploring new trails only when they clearly align with recreational and ecological management goals.

- **Rest period:** No new trail approvals in the affected area for at least three years after construction or reroute.
- **Exceptions:** Safety concerns, environmental protection (e.g., erosion or drainage repairs), or legal/funding requirements.
- **Goal:** Keep the pace of trail development thoughtful and balanced so the forest can rest, heal, and remain ecologically resilient over time.
- **Consistency:** This approach is consistent with how other Vermont community and state forests manage trail planning—using multi-year rest periods and limited review windows to ensure ecological recovery and careful stewardship.

**Trail Approval Process**

All new trail development in ACF must adhere to the trail approval process. This ensures compliance, transparency, ecological responsibility, and community engagement. This is a sequential list of steps that must be completed in order.

1) Document the Need, Purpose, and Identify Proposed Route

Requests to the committee should include:

- Clearly define the intended use, users, purposes, and estimated financial cost and funding sources of the proposed trail
- Explain how the proposed trail supports goals in the ACF Management Plan and aligns with the easement's permitted uses
- Justify the proposed trail based on community interest, accessibility improvements, estimated cost, and/or trail connectivity needs
- Identify the proposed trail using existing forest roads or skid trails where possible
- Show the proposed trail on the provided Sensitive Area Map (**this needs to be finalized**)
- Adhere to the Trail Development Parameters to ensure compliance with protecting forest integrity, wildlife habitat, and wildlife connectivity
- What is the intended audience for the trail?
  - Is the trail intended for pedestrians, bikes, etc

- What user ages, abilities, and interests would be targeted?

2) Preliminary Committee Review

- The proposed trail should then be brought to the ACF committee for consideration and preliminary approval
- The trail proposal documentation from step 1 must be submitted to the committee prior to committee review
- Committee will evaluate trail proposals and base decisions and recommendations in alignment with B6.1 Recreation Goals and Actions

3) Expert Review, Flagging, and Final Map

The applicant and committee will coordinate to:

- Engage an experienced trail designer to flag the preliminary route
- Engage a practicing botanist, wildlife biologist or other qualified, practicing ecological professional to walk the flagged route and fifty feet on each side to identify rare, threatened, and endangered native species or wetlands that could be disturbed by trail construction or usage
- Provide opportunities for members of the ACF Committee to walk the proposed trail
- Adjust the route as needed to avoid:
  - Rare, threatened, and endangered species
  - Fragile soils and erosion-prone terrain
  - Conflicts with known wildlife usage
  - Sensitive areas as outlined in the Trail Development Parameters
- Map the finalized proposed trail route, respecting the protective buffers around ecologically sensitive areas

4) Committee Review and Public Input

- Present the proposal to the ACF Committee for further review
- ACFC will invite input from the following groups:
  - Richmond Trails Committee
  - Richmond Conservation Commission
  - The general public (e.g., through meetings, notices, and comment periods)
- Consider abutting landowner input when appropriate

5) Regulatory and Legal Compliance

- Ensure compliance with the Conservation Easement and Richmond Zoning, State, and Federal regulations
- Prepare supporting documents:
  - Final trail map
  - Erosion and sediment control plans (if necessary)

6) Approval and Permitting

- Submit finalized proposal for formal approval by:
  - The ACF Committee
  - The Richmond Selectboard

7) Construction and Stewardship

- Construct the trail using best practices outlined in the [Vermont Town Forest Stewardship Guide](#) and [Vermont Town Forest Trail Design Guide](#)
- Coordinate with volunteers, professional builders, and the Trails Committee
- Establish a monitoring and maintenance plan with reporting and adaptive management based on use and impact
- Maintain a record of the trail project, including proposal, design, construction, and stewardship activities.

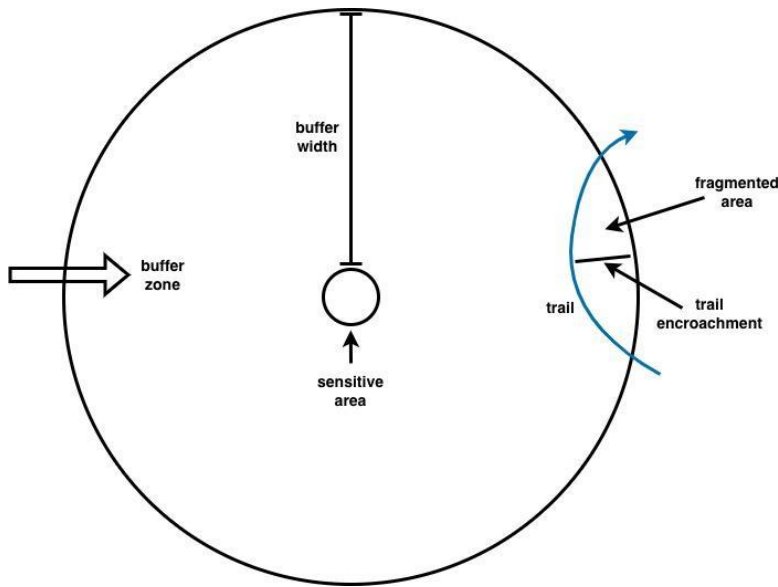
**Trail Deviation Review Process**

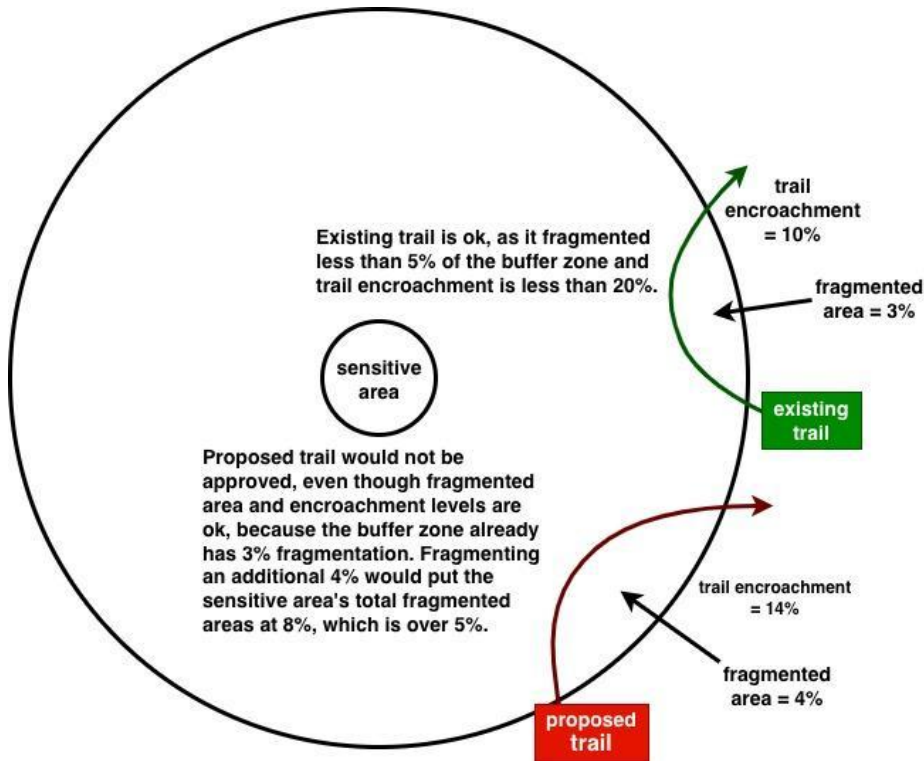
This process allows for limited and carefully considered adjustments to recreational trails adjacent to sensitive natural areas. Deviations may be used to address site-specific safety or terrain challenges, and should be minor, purposeful, and protective of core habitats.

Definitions/Limitations

**Trail Encroachment:** A trail's encroachment distance may not reduce the buffer width by more than 20%. The buffer width is the distance from the sensitive area to the outer edge of the buffer (see diagram).

**Fragmentation Area:** The combined total area of all trail encroachments on a buffer zone shall not exceed 5% of that original buffered area. Any buffer separated from the original zone by the encroaching trail is considered to be fragmented from the original buffer (see diagram).





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Require a Justification Statement

Where ZOI trail deviations are proposed, requester shall include a justification statement indicating:

- 518 ● Why the deviation is necessary (e.g., terrain constraints, trail connectivity need, user safety)
- 519 ● What alternatives were considered and why they were rejected
- 520 ● Ecological impact mitigations. Specifically, note the ways in which the remaining management variables
- 521 noted in Meredith Naughton’s Wildlife & Recreation are taken into account by the proposal. These
- 522 include: trail consolidation, trail use volume, recreation activity type, species specific
- 523 management/impacts, education, seasonal closures, and trail construction impacts and timing.

524

Trigger an Enhanced Ecological Review

Require a review by a qualified ecologist and/or wildlife expert that includes:

- 527 ● Site walk of the deviation area
- 528 ● Assessment of potential impacts (wildlife, soil, hydrology, etc)
- 529 ● Recommendations for:
  - 530 ○ Buffers or reroutes
  - 531 ○ Seasonal restrictions

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- 532 ○ Infrastructure (e.g., boardwalks, signage)
- 533 ○ Monitoring requirements and impact assessments

534

535 **Committee Decision and Conditions**

536 The ACF Committee will vote to approve or deny the proposed deviation, or request modifications and  
537 resubmission of the proposal.

538

539 **Potential Recreation Partnerships**

- 540 ● Audubon Vermont
- 541 ● Community Senior Center
- 542 ● County Forester
- 543 ● Neighboring landowners: Maple Wind Farm, VYCC, etc
- 544 ● Richmond Conservation Commission
- 545 ● Richmond Land Trust
- 546 ● Richmond Mountain Trails/Vermont Mountain Bike Association (VMBA)
- 547 ● Richmond Trails Committee
- 548 ● Scouts
- 549 ● UVM Community Forest Program
- 550 ● UVM Field Naturalist Program
- 551 ● Vermont Fish & Wildlife Department
- 552 ● Vermont Land Trust
- 553 ● Western Abenaki Tribes and Richmond Racial Equity

554

555

556 **More information**

557 See Appendix \_\_, The ACF for People and Wildlife

558

559

## 560 Forestry and Agriculture

561

562 Forest management in the ACF is guided by a [Forestry Management Plan](#) under the direction of the County  
 563 Forester. It is aimed at improving the ACF's ecological diversity and resilience to climate change, invasive  
 564 species and other factors, as well as serving as a model for sustainable forest management. It uses a 'zone'  
 565 approach that classifies parts of the forest into one of three management styles to collectively achieve the overall  
 566 objectives.

567

### 568 Goals

- 569 ● Follow the [Forestry Management Plan](#) (updated in 2025) to manage forestry activities that improve forest  
 570 health, wildlife habitat protection and wildlife diversity.
- 571 ● Protect natural communities as well as the ecological processes that sustain them. Retain soil integrity, water  
 572 quality, natural species composition, natural disturbance regimes and natural hydrology.
- 573 ● Recognize that forest management in the form of the periodic harvesting of timber is an important part of land  
 574 conservation, maintaining the working landscape, and supporting the forest products economy in Vermont.
- 575 ● Manage the ACF to sustain plant and wildlife species of special cultural importance to indigenous peoples.  
 576 (When forest management incorporates traditional practices by engaging indigenous foresters and culture  
 577 keepers, it offers the opportunity to educate the community about historical and contemporary Indigenous  
 578 forest stewardship practices.)

579

### 580 Actions

- 581 ● Utilize multi-aged silvicultural treatments over the majority of the property.
- 582 ● Avoid creating new permanent openings or wide (> 20 feet wide), roads and trails.
- 583 ● Utilize management guidelines that enhance the value of the forest for a variety of deep forest species such as  
 584 bear, fisher, and a variety of songbirds is recommended.
- 585 ● In Ledge, Talus, and Ridges area, a forested canopy should be maintained over these rock habitats that occur  
 586 in a forested matrix. Maintain a 100' buffer from treatments to broken ledge and talus that provide  
 587 concealment cover for wildlife.
- 588 ● Mast Stands: Use forest management activities that promote the establishment, maintenance, and persistence  
 589 of these species within the Forest.
- 590 ● Update natural community mapping as more on-the-ground data becomes available.
- 591 ● All forestry activities shall incorporate steps to retain soil integrity, water quality, natural species  
 592 composition, natural disturbance regimes, and natural hydrology; Identify and control exotic species with the  
 593 Forestry Management Plan.
- 594 ● Deer Wintering Areas: The Hemlock and Hemlock-Northern Hardwood forest communities on the parcel  
 595 could be managed specifically to enhance the conifer overstory and hemlock regeneration.
- 596 ● Employ forest management for timber on municipal lands as a demonstration of responsible, and sustainable  
 597 forest management, educating residents of Richmond and beyond in how to harvest forest resources in a  
 598 sustainable way. See Forestry Management Plan for harvest dates.
- 599 ● Hold educational events around forest management activities to inform the public about the rationale and best  
 600 practices of sustainable forest management.
- 601 ● Maintain contact with indigenous tribal foresters to contribute to future forest management planning and  
 602 activities. In collaboration with indigenous partners, identify culturally important species (e.g., black ash) and  
 603 the stewardship practices needed to sustain them, to inform future forest management activities.

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**Agriculture**

Parts of the ACF include open pastures used by previous owners for grazing livestock. The ACF Conservation Easement permits agricultural operations where the forest has already been cleared. The neighboring Maple Wind Farm now owns much of the former Andrews Farm’s crop and grazing lands. The exceptions are ACF’s “lower meadow” and an additional meadow along the utility right-of-way. In addition, Maple Wind Farm has a right-of-way into the ACF from the neighboring farmyard to Maple Wind’s upper meadow. The Town has a right-of-way over the northern edge of that meadow. The ACF’s major east-west trail, the former VAST snow machine route, uses those rights-of-way, as does farm machinery.

There may be opportunities in the forest for a community garden/orchard, and agricultural education and demonstration projects. The ACF Committee will remain open to proposals for alternative uses of the agricultural lands, and it appreciates maintaining a long-term, mutually beneficial agricultural partnership.

**Goals**

- Recognize the importance of agriculture in Richmond and Vermont’s heritage and continue to allow agricultural uses that are compatible with other management goals.
- Develop agreements with Maple Wind Farm or other farm entities to allow coexistence of agriculture and public access.

**Actions**

- Promote opportunities for agriculture education and demonstration on the parcel, perhaps in conjunction with Maple Wind Farm or other agricultural entities with a vested interest in the property.
- Work with the Maple Wind Farm to ensure compatible shared use of these two roads and rights-of-way
- Accommodate a high tensile electric fence around the grazing areas to allow for public access to the meadows when the pastures are not in use for grazing and access to be closed when the pastures are in use.

**Potential Agriculture Partnerships**

- Maple Wind Farm
- Richmond Farmers Market
- Richmond Community Kitchen
- The Farm at VYCC
- NOFA Vermont

## 638 **Education**

639  
640 The Andrews Community Forest provides the community with the opportunity for formal and informal  
641 educational experiences that interpret Richmond’s natural and cultural history, creating an exciting opportunity to  
642 enrich community life. Throughout the ACF land-use planning process, residents expressed a strong interest in a  
643 dedicated wild space to learn about the natural world, especially within their town forest.

644  
645 The ACF committee supports the development of safe, enriching, and inclusive learning adventures through  
646 thoughtfully crafted educational materials, signage, programs, partnerships, and infrastructure.

647  
648 Richmond's three public schools, numerous preschools, day care centers, homeschool programs, senior center,  
649 nearby colleges, VYCC, and the general public will all benefit from a community environmental education hub  
650 based in the ACF.

### 651 **Regional Models for Success**

652  
653 The Green Mountain Audubon Center, Shelburne Farms, Birds of Vermont Museum, North Branch Nature  
654 Center, and Krusch Nature Preserve serve as regional models of how natural areas can support both professional  
655 and self-guided learning about natural and cultural history. These sites offer valuable examples for creating  
656 similar impactful educational infrastructure in Richmond.

### 657 **Educational Goals and Actions**

658  
659 The ACF offers many advantages for educational programming, including location, available parking, and overall  
660 accessibility. These elements make the ACF an ideal site for guided programs, habitat stewardship projects,  
661 outdoor recreation lessons, and working lands management workshops.

662  
663 Below is a list of objectives and tasks. Goals 1-3 should be considered high priority, while Objective 4 is of  
664 moderate priority. The following objectives guide the development of educational initiatives in the ACF.

#### 665 **Objective 1**

666 Provide education opportunities to local schools and community groups.

#### 667 **Actions**

- 669 ● Develop a self-guided tour with interpretive materials for teachers to use on field trips.
- 670 ● Improve kiosk content and digital resources (maps, audio, data collection tools, photographs) to support
- 671 educational programming.
- 672 ● Facilitate educational programs about the natural and cultural history of the ACF, including forestry and
- 673 habitat stewardship projects.
- 674 ● Partner with educators to design field trips that align with school curricula.
- 675 ● Provide safety information, procedures, and emergency access.
- 676 ● Post to *Times Ink!*, *Front Porch Forum*, the ACFC webpage and social media information about the
- 677 ACF’s natural and cultural history, and efforts to protect and enhance its natural communities and other
- 678 habitat features.
- 679

**Commented [BE4]:** Note that in this section we group actions under separate goals. Though inconsistent, it seems to work well here, so I’d vote for keeping it as is.

680

681 **Objective 2**

682 Recognize and honor Indigenous connections to the land.

683

684 **Actions**

- 685 ● Dedicate a portion of the kiosk to sharing the history of Abenaki use and care of the land.
- 686 ● Host programs and events that include speakers knowledgeable about Indigenous perspectives (e.g., book groups with authors; partnerships with UVM, VYCC, and the Richmond Free Library).
- 688 ● Seek guidance from Indigenous leaders, cultural organizations, and community members to inform the naming of trails and natural features to reflect Abenaki heritage.

690

691 **Objective 3**

692 Increase access to nature-based programming for the general public.

693

694 **Actions**

- 695 ● Provide education and updates about ACFC's efforts to preserve its species and habitats.
- 696 ● Host events such as bird walks, guided hikes, nature programs, and mountain bike and snowshoe clinics.
- 697 ● Lead seasonal guided walks that highlight natural history, forestry, and habitat stewardship.
- 698 ● Seek partnerships for citizen science efforts.

699

700 **Objective 4**

701 Support environmental literacy through infrastructure and interpretation.

702

703 **Actions**

- 704 ● Design signage, maps, and displays to help visitors understand the forest's ecological systems and human history.
- 706 ● Ensure accessibility and inclusivity are prioritized in all signage.

707

708 **Challenges**

709 These considerations should inform the planning and implementation of education infrastructure and programming:

- 711 ● Steep terrain and trails limit accessibility
- 712 ● Limited parking capacity
- 713 ● Lack of pedestrian access (most visitors will need to drive or bike)
- 714 ● An unusually large tick population

715

716 **Potential Education Partnerships**

- 717 ● Abenaki Nation of Missisquoi
- 718 ● Birds of Vermont Museum
- 719 ● Camels Hump Middle School
- 720 ● Chittenden County Forester
- 721 ● Community Senior Center
- 722 ● Essex Technical School

- 723 ● Green Mountain Audubon Center
- 724 ● Mount Mansfield Union High School
- 725 ● Radiate Art
- 726 ● Richmond Conservation Commission
- 727 ● Richmond Elementary School
- 728 ● Richmond Land Trust
- 729 ● Richmond Racial Equity Group
- 730 ● Richmond Recreation Committee
- 731 ● Scouting America
- 732 ● Summer Camps (MMMUSD, MMMUSD Part 2, Our Community Cares Camp) • Green Mountain
- 733 Orienteering Club
- 734 ● The Nature Conservancy
- 735 ● The Nulhegan Band of the Coosuk Abenaki Nation
- 736 ● UVM Field Naturalist Program
- 737 ● UVM Ecological Planning Lab Extension Program
- 738 ● UVM Environmental Studies Program
- 739 ● UVM Rubenstein School of Environment and Natural Resources
- 740 ● Vermont Agency of Natural Resources
- 741 ● Vermont Coverts
- 742 ● Vermont Land Trust
- 743 ● Vermont Master Naturalist Program
- 744 ● Vermont Youth Conservation Corps (VYCC)
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## Appendices

- A. General Property Description
- B. Governance
- C. Cultural History
- D. Indigenous Land Acknowledgement and Uses [Proposed]
- D. The ACF for People and Wildlife
- E. (Conservation Easement)
- (E. References)

**Commented [BE5]:** Given the number of references to it in the text, its inclusion may be warranted. Or, the links we provide may be sufficient.

**Commented [BE6]:** If these are taken out of above sections.

## 761 A. General Property Description

762 The Andrews Community Forest is a 428-acre largely forested parcel just outside Richmond Village in  
 763 Chittenden County. The property is a diverse forestland with two small meadows. It has an abundance of  
 764 hard-mast stands, predominantly oak and beech, that serve as important habitat for many species of wildlife.  
 765 The forest includes several patches of Dry Oak Forest, Dry Red Oak-White Pine Forest, and Dry Oak-  
 766 Hickory-Hophornbeam Forest, which are uncommon natural communities in Vermont. The property also  
 767 has patches of dense hemlock, and those pockets, combined with its low elevation and southerly aspect,  
 768 reportedly make it a heavily used winter deer yard. Recent timber harvesting and blowdown events have  
 769 created patches of young forest and early successional habitat in the west and south of the property.  
 770

771 Overall, this forest, especially as part of a larger, connected forest block, is a well-conserved wildlife habitat.  
 772 The forest is one of eight large parcels that originally inspired the Chittenden County Uplands Conservation  
 773 Project (CCUCP). The CCUCP is a landscape-scale conservation effort with over a dozen partners working  
 774 to conserve ecologically and culturally important forest blocks and habitat connectors between and  
 775 alongside Camel's Hump State Park and Mount Mansfield State Forest. The Andrews Community Forest  
 776 abuts 6,000 acres of forestland that itself is part of the 72,000-acre Mt.Mansfield Forest Block. This largely  
 777 conserved forest block is a critical wildlife corridor and has been  
 778 ranked in the top 3% of the state's wildlife habitat blocks by the Vermont Department of Fish and Wildlife.  
 779

780 In terms of water resources, the forest has several headwater streams that flow into the Winooski River and  
 781 then on to Lake Champlain. The property also includes a small beaver pond and wetlands and at least two  
 782 vernal pools. The quality of these water resources is directly related to the health of the surrounding forest.  
 783

784 There is a long history of timber management in the forest, as the Andrews family actively managed the  
 785 forest. From 2011 - 2018, timber management occurred on a western portion of the property. Western areas  
 786 were previously logged in 2001-2003 and eastern areas were logged in 1994-1997 by well-respected  
 787 Richmond/Huntington loggers Mark and Bruce Moultroupe. Going forward, the forest is capable of  
 788 providing timber and other forest products into the future. Many forest management roads (also called  
 789 "logging roads," or "skid trails") from previous logging operations still exist on the forest,  
 790 and despite drainage and other sustainability issues, may serve as a component of a multi-use recreational  
 791 trail network. The use of these trails for recreation should not compromise or preclude their utility as forest  
 792 management roads into the future.  
 793

794 In 2018, the Town of Richmond, with the assistance of Vermont Land Trust, purchased this 428-acre,  
 795 largely wooded parcel from the Andrews family to create a new community forest. Simultaneous with the  
 796 sale, a Conservation Easement was conveyed to both the Vermont Land Trust and the Vermont Housing and  
 797 Conservation Board to protect the property's natural resources and ensure public access in perpetuity.  
 798

799 Along with the existing logging roads, the forest has potential for a future recreational trail network. The  
 800 former VAST trail running east to west through the forest connects to existing trails on neighboring  
 801 properties. There are existing hiking trails on the VYCC property to the east and a public multi-use trail was  
 802

Commented [BE7]: These headings would track with those in the main section

803 recently constructed on privately owned land abutting the forest to the northwest.

804

805 Other current uses of the property include Maple Wind Farm agriculture and grazing and a Vermont Electric  
806 Power Company (VELCO) power line that cuts across the property.

807

808 **Sources**

809 Documentation about the ACF and its surrounding lands is available via State resources updated with new  
810 information provided by the Vermont Agency of Natural Resources (ANR) through its 2024 [Vermont](#)  
811 [Conservation Design](#) initiative and updated [BioFinder](#) web site (together with continuing updates by VGIS  
812 [\(Vermont Center for Geographic Information ?\)](#)). Specific ACF and local sources include Arrowwood’s [Science](#)  
813 [to Action](#) assessment (see “Richmond/Huckleberry Hill” text, and the UVM [Field Naturalist Report](#)). These  
814 provide appreciation of key landscape features and the wildlife and ecology. These resources also inform  
815 decisions regarding Forest uses in general and as stipulated by the Forest [Easement](#) (the [Richmond Town Plan](#)  
816 and other governing documents, regulations and policies.

817

818

## 819 Governance

### 821 ACFC Vision

822 The Andrews Community Forest will serve Richmond as a thriving ecosystem where conservation, education, and  
823 recreation harmoniously coexist. Through sustainable management practices, we aim to preserve the forest's  
824 ecological integrity and contributions to its forest block, while providing opportunities for local community  
825 engagement, environmental education, innovative forestry practices, and outdoor recreation. Together, we strive  
826 to create a model of responsible land management where generations connect with and enjoy nature, share in the  
827 Forest's stewardship, and foster a deep appreciation for the rich biodiversity and cultural heritage of our region.

### 829 ACFC Mission

830 The ACFC's mission is to manage the Andrews Community Forest to uphold the Purposes and other  
831 directives of the Conservation Easement as well as those found in applicable local, state and  
832 federal policies and mandates. We will:

- 833 1. Protect its productive forestland, wildlife habitats, biological diversity, natural communities, riparian buffers,  
834 wetlands, soil and water quality, and native flora and fauna, along with the ecological processes<sup>2</sup> that sustain  
835 them.
- 836 2. Keep the ACF available for public use and enjoyment, including non-motorized, non-commercial recreational,  
837 educational, and other appropriate community uses.
- 838 3. Conserve the ACF's open space values and scenic resources for current and future generations
- 839 4. Guide the Forest's management through open, public discussions and decision-making.

841 Furthermore, the Steering Committee will strive to demonstrate ongoing commitments to:

- 842 • Providing meaningful public access and outdoor recreation opportunities while simultaneously  
843 providing meaningful natural resource protection.
- 844 • Learning more about the property and its natural history.
- 845 • Working together across differences as representatives of the Town and all of its residents.

846 The ACFC Bylaws describe the Committee's structure and operating procedures. They may be found at [this](#)  
847 [link](#)<sup>3</sup>.

### 849 Management Plan Background

851 The Andrews Community Forest Committee (ACFC) is charged by the Richmond Selectboard for meeting  
852 the priorities and goals outlined in the ACF Management Plan and the directives of the Selectboard and Town  
853 Manager. Upon purchasing the property in 2017, the Selectboard established an Interim Community Forest  
854 Steering Committee to develop an initial and then a full management plan for the Forest. The Interim Plan  
855 was approved by the Selectboard in March of 2018, and [the first full management plan](#)<sup>4</sup>, with [maps and](#)

<sup>2</sup> Typical ecological processes for a Vermont forest include succession, carbon sequestration, natural disturbances, and the interaction of biotic (organisms) and abiotic (climate and soil) factors, all contributing to a dynamic and resilient ecosystem.

<sup>3</sup> [https://www.richmondvt.gov/fileadmin/files/Andrews\\_Community\\_Forest/General/2024/11/Appendix\\_D\\_Andrews\\_CPMC - Bylaws -10-30-2018\\_VERS - amended 10-28-24 - clean.pdf](https://www.richmondvt.gov/fileadmin/files/Andrews_Community_Forest/General/2024/11/Appendix_D_Andrews_CPMC_-_Bylaws_-10-30-2018_VERS_-_amended_10-28-24_-_clean.pdf)

<sup>4</sup> [https://www.richmondvt.gov/fileadmin/files/Andrews\\_Community\\_Forest/General/2024/05/13MP1\\_Plan\\_Only.pdf](https://www.richmondvt.gov/fileadmin/files/Andrews_Community_Forest/General/2024/05/13MP1_Plan_Only.pdf)

**Commented [BE8]:** Link added. Here and elsewhere, should we also add the link address as a footnote, so anyone reading a printed version of the MP can still find the referenced information?

**Commented [BE9]:** Already in the up-front Governance section.

856 [appendices](#)<sup>5</sup>, was approved in November of 2018. In 2021 the ACFC began revising the first Plan in response  
857 to consultant recommendations for a new trail plan. An early draft was presented to the public in March of  
858 2023. As membership of the ACFC changed, work continued to incorporate additional public input and  
859 expert recommendations, with the current, updated revision being approved by the Selectboard on \_\_\_\_\_,  
860 2026.

861  
862 More information on the management plan development process can be found [here](#).

**Commented [BE10]:** This would have a link to a separate document to be housed on the ACFC section of the Town website. (Draft accessible [here](#).)

864 **Legal Agreements**

865 Conservation Easement

866 Management of the Andrews Community Forest is directed by the “Grant of Development Right,  
867 Conservation Restrictions and Public Access Easement,” a legal conservation agreement with between the  
868 Town and the Vermont Land Trust and the Vermont Housing and Conservation Board. It can be found at this  
869 [link](#)<sup>6</sup>. The purposes of the easement are to conserve the property’s natural resources, ecological processes, and  
870 open space values; provide for non-motorized, non-commercial recreation and education; and involve the  
871 public in the management of the property.

872  
873 Vermont Land Trust acts as the primary easement steward. As such, VLT conducts annual monitoring to  
874 ensure activities on the property are consistent with the terms of the easement. The easement steward is also  
875 the Committee’s primary contact at VLT for reviews and approvals of proposed actions which are not  
876 contemplated in the management plan.

877  
878 The easement requires a management plan and any future changes to the management plan must be reviewed  
879 and approved by VLT. Section 1.B. of the Conservation Easement dictates what information the management  
880 plan must include. Public input is required by any updates to the Plan.

881  
882 Agricultural Lease

883 Maple Wind Farm is the adjoining landowner, and its property includes the remaining acres of the original  
884 Andrew farm. Maple Wind Farm has historically used eight acres of what is now the community forest for  
885 grazing cattle. For 10-16 days each year, 30 adult bovines and 30 calves may be grazing on the ACF’s lower  
886 meadow and the meadow by the VELCO powerline. Both parties are interested in continuing this  
887 arrangement and will explore the possibility of a long-term lease. Vermont Land Trust will need to approve  
888 this lease before it is finalized. No long-term agricultural easements on the property will be allowed.

**Commented [BE11]:** Wright confirms that this and the powerline rights-of-way reflect his updates.

889  
890 In negotiating this lease, [the Committee seeks to retain a trail through the lower portion of the pasture to link](#)  
891 [the VELCO road with the Maple Wind Farm road.](#) This trail would be open any time cows are not grazing in  
892 the pasture; when cows are grazing, the Committee proposes closing this trail and installing appropriate  
893 signage to redirect visitors to other routes on the property.

**Commented [BE12]:** Descriptive enough? Should we refer to “Meadow Meander” or leave it open?

5  
[https://www.richmondvt.gov/fileadmin/files/Andrews\\_Community\\_Forest/General/2024/05/14ACF\\_Management\\_Plan\\_Appendicescompress.pdf](https://www.richmondvt.gov/fileadmin/files/Andrews_Community_Forest/General/2024/05/14ACF_Management_Plan_Appendicescompress.pdf)

6 <https://www.richmondvt.gov/fileadmin/files/Archive/2018/04/Conservation-Easement-2018.pdf>

894

895 Powerline Rights-of-Way

- 896 • VELCO

897 A VELCO powerline runs through the community forest and VELCO owns the right-of-way. VELCO  
 898 needs road access to the right-of-way on occasion for maintenance and repairs to the powerline. In 2018,  
 899 VELCO improved a road from the forest entrance on Route 2 to the powerline; they used the upper  
 900 landing area to stage their work. Following this work, they re-seeded the landing and the road above the  
 901 landing, and installed waterbars on the road below the landing. At certain periods, VELCO may need to  
 902 close some or all of the forest to perform larger projects on the powerline. The Community Forest  
 903 Stewardship Committee should coordinate with VELCO to prepare for such events and fully inform the  
 904 public of the closure.  
 905

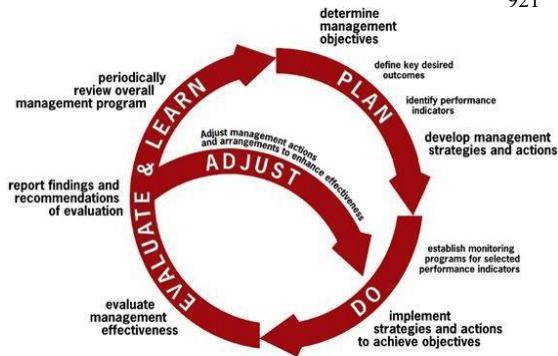
- 906 • Green Mountain Power

907 Green Mountain Power has a 75-foot right-of-way adjacent to the VELCO line in the same powerline  
 908 corridor. Within this corridor, Green Mountain Power manages vegetation. The Committee will work to  
 909 better understand the vegetation management goals and practices, the landowner's (Town's) rights, to  
 910 advise the Selectboard to make an informed decision about vegetation management within the Powerline  
 911 corridor, and alert ACF visitors to the activities.  
 912

913 **Management Plan Updates**

914 This management plan is intended to be a living and evolving document as the Town continues to grow its  
 915 understanding of the Forest's needs, functions and changing conditions. The Town should make management  
 916 decisions based on the latest information combined with the resource management objectives. In addition, the  
 917 Town should be continuously gathering new information to guide future management decisions and update this  
 918 plan at a minimum of every ten years. The Committee will annually discuss whether an update to the  
 919 Management Plan is needed, and to employ aspects of this "adaptive management model."  
 920

921



934 Any changes to the Management Plan must be reviewed and approved by VLT, and any activities on the  
 935 property which are not contemplated in the management plan must be reviewed and approved by VLT

4-2-26

936 stewardship staff to ensure compliance with the Conservation Easement.

## Cultural History

### Indigenous Heritage

Richmond is located within Ndaquinna (in-DAH-kee-NAH), the homeland of the Western Abenaki people, also known as the Original People, who have a unique connection to this land and have been its traditional caretakers since at least the last Ice Age. For hundreds of generations before the European colonists arrived and applied their own borders and labels, the Western Abenaki people lived and worked on this land, stewarding resources in an ecologically sustainable way. Given that ACF lies along important east-west and north-south transportation and trade routes, other tribes are likely to have visited the forest as well.

Abenaki oral tradition and written accounts, historical resources, and archaeological studies of prehistoric sites in Richmond inform our understanding of how the ACF landscape has been stewarded and its continued importance to Indigenous people of our town and region. General resources include books such as those by Wiseman (1995, 2001), an Abenaki elder and scholar, and Haviland and Power (1994), as well as numerous online resources. Appendix 3 in Wiseman (2001) lists many written, video, and museum resources regarding Abenaki cultural history.

Specifically for the Richmond area, archaeological studies in the 1990s near the bridges in Jonesville over the Huntington and Winooski rivers have yielded valuable physical evidence of occupation and forest use by Indigenous peoples before colonization (Thomas et al. 1995; Doherty et al. 1996). These sites were radiocarbon dated to approximately 1040 AD (near Winooski bridge) and 1500 AD (near Huntington bridge), and thus considered to represent the Middle to Late Woodland period. The sites show that animals “including black bear, deer, beaver, porcupine, muskrat, fisher, mink, skunk, cottontail, red squirrel, and chipmunks were taken for both meat and pelts. Various nuts, including butternut, hickory nuts, beech nuts, and acorns from red oak” were also collected and processed for consumption and storage (Thomas et al. 1995). Diverse tree species were used for firewood at the Huntington River site, including beech, maple, birch, red pine, eastern hemlock, elm, eastern hophornbeam, eastern cottonwood, red pine, and possibly alder. No evidence of maize was found at these sites, even as maize, beans, and other plants were being cultivated at that time along the Winooski River closer to Lake Champlain. Thomas (2008) surmises that these Jonesville sites were seasonal encampments occupied between September and late December/early January to collect and process forest resources.

Such findings suggest that the forests where ACF is now located were largely stewarded and used for hunting and gathering, rather than agriculture. This pattern concurs with broader geographical accounts of Abenaki practices, such as Wiseman (2001:27), who stated that the Abenaki “... had smaller seasonal camps along most rivers eight thousand winters ago” and described gathering and hunting activities in the uplands.

The Jonesville archeological digs also uncovered the dramatic environmental changes that occurred as a result of forest clearing by European settlers (Thomas et al. 1995). The alluvial terrace on the Huntington River, which the Abenaki families occupied over 500 years ago, had developed slowly over thousands of years with minimal flooding evident in the analysis of sediments. In contrast, during the 19<sup>th</sup> and early 20<sup>th</sup> centuries, catastrophic flash flooding became more common as upland and riparian forests were cleared for farming. Thomas (2007:9) noted that “between roughly 1810 and 1880, four to seven feet of sand, gravel, and even small cobbles were

**Commented [BE13]:** Ian comments: “The following pages are material that was in the main text of the MP. There is already an Appendix ‘Proposed for Andrews Community Forest Management Plan Appendix Addressing Indigenous Land Acknowledgement and Land Use’ that provides greater detail. It’s at [https://www.richmondvt.gov/fileadmin/files/Archive/2018/04/land-acknowledgment-and-use-agreement-appendix-1.31.21-draft-5179783\\_1.docx](https://www.richmondvt.gov/fileadmin/files/Archive/2018/04/land-acknowledgment-and-use-agreement-appendix-1.31.21-draft-5179783_1.docx) To be resolved!” Brad responds: “That link goes to “text containing the proposed agreement and some suggestions on naming conventions. This section would provide some background on the Abenaki in our area, with text coming from that presented at the meetings with tribal leaders and Richmond Racial Justice. Once ok’d by the Town, and, perhaps, signed by the SB and tribal leaders, we could put the Agreement in a separate Appendix. We probably should also do that with the Conservation Easement.”

979 deposited on the terrace surface.” These extraordinary floods covered or destroyed most evidence of precontact  
 980 use and settlements. More recently, as abandoned farmland grew back to forest, flooding has declined. “Since the  
 981 early decades of the twentieth century, less than eight inches of alluvium have been deposited on the terrace  
 982 surface next to the Huntington bridge, and most of this was probably due to the great flood of 1927” (Thomas  
 983 2007:10).

#### 984 **Plants and Animals of Special Cultural Importance for Western Abenaki**

986 A number of forest species were and continue to be of special cultural importance to the Abenaki people, and as  
 987 such deserve special management consideration. Among tree species, these include black ash (*Fraxinus nigra*,  
 988 also called brown ash and *maalakws* in Abenaki) used for basketry, and white birch (*Betula papyrifera*, also  
 989 called canoe birch, its bark called *wigwa* in Abenaki) for canoes, homes, and containers. Unfortunately, black ash  
 990 populations are currently highly threatened by the emerald ash borer, which is already present in Richmond.  
 991 Butternut (*Juglans cinerea*, in Abenaki *pagon* or *bagon*) were among the trees highly valued for food, medicines,  
 992 materials, and dyes (Haviland and Power 1994; Wiseman 1995b, 2001). This culturally important species is also  
 993 threatened. The butternut canker fungus, first found in Vermont in 1983, now infects nearly all butternut trees  
 994 causing dieback and often death. Maple sugaring (*Pkwamhadin* – “gathering of maple sap” (Chenevert 2021))  
 995 was an important seasonal activity among the Western Abenaki, one which was taught to colonists (Cotnoir n.d.).  
 996

997 Thomas (et al. 1995:61-64) lists the uses by the Abenaki of some thirty species of trees and shrubs abundant in the  
 998 mixed deciduous forests of Vermont, many of which are found in ACF. Wiseman (1995a, 1995b, 2001) describes  
 999 a wide range of forest plant species that were and are collected for construction materials, food, medicines, and  
 1000 dyes by Abenaki people. In Appendix 2, Wiseman (2001) lists many forest plants used in Abenaki herbal  
 1001 medicines by the maladies that they treat. A complete list of culturally important species found now or in the past  
 1002 at ACF would be valuable to develop for use by the ACFC in management decisions and educational materials.  
 1003 Ideally, such a list would be compiled, and important species prioritized, in partnership with the Abenaki people.  
 1004

1005 Before colonization, the Abenaki likely hunted and trapped a wide range of animal species for food and pelts in  
 1006 the forested landscape where ACF is now located. Thomas et al. (1995:65-75) describes the traditional uses of the  
 1007 11 species of animals found at the Huntington River site. Wiseman (2001) describes the relationship and  
 1008 importance of many species to the Abenaki, as well as how they were traditionally hunted and used. The acts of  
 1009 hunting and fishing, as well as the resulting food, skins and other usable body parts (e.g., bones and sinew),  
 1010 remain culturally important for many Indigenous peoples. As mentioned for forest flora above, it would be  
 1011 valuable to develop a prioritized list of ACF’s animal species of cultural importance in consultation with Abenaki  
 1012 partners, including uses, stewardship, and both Abenaki and scientific names.  
 1013

#### 1014 **Abenaki language and the ACF**

1015 The Western Abenaki language, which is in the Algonquian family of languages, is considered critically  
 1016 endangered by UNESCO (2010). It is a descriptive language based on root words specifying physical qualities.  
 1017 For example, the region’s largest river is named Winoskisibo – built from *Winos* means onion, *ki* means land, and  
 1018 *sibo* means river. Thus the Winooski River is named for the ramps and other wild onions which were known to  
 1019 grow in abundance along its shores. Maintaining the Abenaki language and culture is deeply connected to the  
 1020 Abenaki homeland and its stewardship. For example, Cotnoir (n.d.), a citizen of the Nulhegan Band of the Coosuk

1021 Abenaki Nation, wrote that "...sugaring still functions as a time for our community members to gather and  
1022 connect with the woods and one another. Through sugaring, we continue to cultivate a working relationship with  
1023 the land, while practicing our language – Western Abenaki."

1024  
1025 Conservation efforts, such as the ACF, can inadvertently contribute to the erasure of Indigenous presence when  
1026 introducing and perpetuating nonnative place names and management practices. Conversely, the ACF can support  
1027 the revival of the Western Abenaki language and culture by supporting the use of Abenaki language for places,  
1028 practices, flora, and fauna in the naming of trails, educational materials, and signage. If ACFC decides to go  
1029 beyond that list, Abenaki culture keepers should be consulted.

1030  
1031 **Appendix** \_\_\_ includes [proposed] "Indigenous Land Acknowledgement" developed by the Richmond Racial  
1032 Equity committee in collaboration with Abenaki tribal citizens and culture keepers. It was accepted by the  
1033 Selectboard in [month] of 20\_\_.

### 1034 1035 **History After European Settlement**

1036 European settlers arrived in the Richmond area in the 1770's. "Gray Rocks Farm," as it was formerly known, was  
1037 placed on the National Register of Historic Places in 1996 "because of its dual architectural and agricultural  
1038 significance" (Longstreth 2007). The farm exemplifies the growth and development of dairy farming in 19<sup>th</sup> and  
1039 20<sup>th</sup> century Vermont. The land that is now the Community Forest was largely the farm's pasture and woodlot,  
1040 and most of the farmland and remains of the historic farm's agricultural buildings are on land now owned by  
1041 Maple Wind Farm and protected by an agricultural conservation easement The farmhouse and immediate yard are  
1042 privately owned.

1043  
1044 The existing forest parcel, along with 212 additional acres, was first farmed by James Butler, beginning around  
1045 1800. He constructed a farmhouse, blacksmith shop, and an English barn before selling the property to Asa  
1046 Rhodes in 1813. The property remained in the Rhodes family for over a hundred years, passing from father to son.

1047  
1048 The 1850 agricultural census indicates that the Rhodes farm was primarily a dairy farm, with 45 cows producing  
1049 1,800 lbs. of butter and 15,000 lbs. of cheese annually. As was common in Richmond at the time, the farm also  
1050 had other livestock – horses, chickens, sheep, and swine. The Rhodes also harvested 125 tons of hay and 200 lbs.  
1051 of maple syrup annually and grew many different crops: corn, oats, rye, potatoes, peas, and beans.

1052  
1053 Over the years, ownership passed first to Asa's son, Cornelius, and then to his son Edward, around 1900. The  
1054 farm continued to grow and ultimately thrived as the market for butter and cheese expanded. Given the farm's  
1055 success, in 1917, Edward reconstructed the English barn into a large U-shaped barn that more than doubled the  
1056 space available for the cows. The new barn also added space for horses, a granary, and a milk house and he added  
1057 a silo for storing cereals elsewhere on the property.

1058  
1059 In 1923, Edward Rhodes sold the farm to Clarence Andrews, and he and his descendants continued dairying  
1060 operations on the property until 1978. The Andrews also operated a successful inn, the Gray Rocks Inn, from  
1061 1928 to 1941. Ina Andrews, Clarence's wife, ran the inn, cooking three meals a day for guests from  
1062 Massachusetts, New York, and Connecticut. During this period, the Richmond area was full of small inns for

1063 travelers looking to experience the idyllic countryside. The tourism business was vital to the Richmond economy  
 1064 and an important period in the town's history.

1065  
 1066 Clarence's sons Kenneth and Everett ran the farm together after their father's death. Upon Kenneth's passing,  
 1067 Everett and his wife, Mary Jo, took over operations, and also sold firewood and hay from the property. They built a  
 1068 rustic cabin on the northern portion as a deer camp which they used into the 1990s. Only two 1950s automobiles  
 1069 remain.

1070  
 1071 Everett and Mary Jo raised four daughters on the land – Abigail, Amy, Jennifer and Kate. After ending  
 1072 farming operations, the family generously facilitated the transfer and conservation of the property. What  
 1073 had largely been the farm's timberland, pastures and places of childhood exploration and adventures  
 1074 became Richmond's first community forest.

1075  
 1076 In 2018, Angus Cummings, a UVM student, interviewed several of the Andrews sisters and other townspeople  
 1077 familiar with the recent history of the parcel for his [thesis](#). It includes historical photos of the site contributed by  
 1078 the Andrews family.

1079

### 1080 **Remaining Historical Sites and Features**

1081 Today, all that is left of the many farmstead buildings on the community forest parcel are two former farmstead  
 1082 sites with stone foundations. One foundation is on the northwestern side of the property, near the VAST trail. The  
 1083 other remaining foundations are near the end of the eastern farm road. One remaining foundation, set slightly  
 1084 apart, was either a springhouse or a small barn. The adjacent, private parcel to the east, was also part of Gray  
 1085 Rocks Farm and the Andrews Farmstead. The 1813 farmhouse and barn remain there, just outside of the town-  
 1086 owned forest property. In 2013 Maple Wind Farm bought 189 acres from the Andrews family largely below  
 1087 Route 2, which is conserved by an agricultural use easement. On January 13th, 2014 the barn located across the  
 1088 street from the ACF entrance, burned down from an electrical fire. Maple Wind Farm rebuilt the barn in the same  
 1089 location in 2014.

1090

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 1102 Archeological Studies Richmond BRZ 1445(18) Richmond, Vermont. Submitted to Vermont Agency of  
 1103 Transportation.

**Commented [BE14]:** Ian commented: "Insert reference to Harriet Riggs – see <https://rfl.kohavt.org/Record/67654>" Brad responds, "Note references to Riggs' book in the Longstreth and Thomas entries in "References" at the end of this appendix. Ian is checking the book to see if they have separate articles in her book. We may be able to just credit her book, and not her sources."

**Commented [BE15]:** Ian commented: "Note there is already a draft Appendix called References. I have worked on a copy to indicate what is cited and what is not cited. Also checked and inserted URLs when available." Brad responds: "There was a separate draft Appendix called "References" but that was a suggestion of mine I now rescind. I thought combining the reference sections in the 2 or 3 appendices that had them would be a good idea but now see the error of my ways, as it would only lead readers to more page turning. Better to leave them in the sections they pertain to rather than lump them all into one. Or at least that's my suggestion. Anyway, a consolidated References is included as a separate Appendix so the Committee can choose the approach they want to take."

4-2-26

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1119

## Indigenous Land Acknowledgement and Uses

### Background

For the development of the Land Acknowledgment, the accompanying usage rights, and the signage and naming suggestions, the following process and expert guidance were engaged:

August 2021: Scott Silverstein and Alexis Latham of Richmond Racial Equity contacted the ACF committee and joined the 8/28/21 meeting to discuss Abenaki access to the forest for hunting, gathering and perhaps holding gatherings, as well as the potential trail naming and interpretive signage. Over the following months and to the present, Scott and Alexis served as leaders and advisors to ACF on this part of the plan revision. They facilitated contacts with Abenaki leaders and culture keepers while leading a collaborative process that resulted in the ACF land acknowledgement, designated use rights, naming and signage proposals and related provisions in Appendix D of this revised plan. They consulted with Jesse Bruchac and Kerry Wood, both tribal citizens, as well as culture keeper Annette Urbschat regarding Abenaki language recommendations for signage and trail names.

October 2021: Chief Don Stevens of the Nulhegan Band of the Coosak Abenaki Nation joined the 10/25/21 ACF meeting to share perspectives on ACF land acknowledgments, Abenaki use rights, and related components.

January 2022: Wording for the Appendix containing the Land Acknowledgment and related components was warned, discussed and final edits discussed by ACF members and the attending public at the 1/6/22 ACF meeting.

January 2022, Rebecca Roman of the Vermont Land Trust reviewed acknowledgment wording and use rights as related to the conservation easement and shared comments at the ACF 1/31/22 meeting.

January 2022: Chief Richard Menard of Missisquoi Abenaki Nation joined the 1/31/22 ACF meeting to share perspectives on the Land Acknowledgment and related components. Appendix D was approved by the ACF Committee on January 31, 2022, and is now also incorporated in the appropriate sections of this draft management plan.

July 2022: Rebecca Rouiller of Radiate Art Space, which sponsored the murals of Abenaki culture and language on the Town Center building, agreed to allow use of mural images in ACF signage. Research and consultation with Abenaki artists went into creating those murals, which were dedicated in a traditional ceremony led by Abenaki culture bearer Charles Delaney Megeso.

### Part 1: Statement of Land Acknowledgement

Andrews Community Forest is located within Ndakinna (in-DAH-kee-NAH), the homeland of the Western Abenaki people, who have a unique connection to this land and have been its traditional stewards for millennia. For many generations before the European colonists arrived, the Abenaki people harvested animals, nuts, plants, berries, fiber, and timber in these forests, without degrading their ecological health. The Indigenous people who preceded the colonists created an extensive system of trails throughout the Green Mountains that attest to the extended relationships between the Abenaki people and other tribes, who also used these forests, and who took

**Commented [BE16]:** This and the next three "parts" could be an Appendix of its own (as could the Conservation Easement, which is at least as central to the document as this.

1163 refuge here as the settlers drove them from their homes.

1164

1165 The Town of Richmond acknowledges that we have access to this land because it was taken without consent and  
1166 that our ability to make decisions about its management rests on this historic injustice. The Andrews Community  
1167 Forest therefore acknowledges the Abenaki people’s rights to use this land in perpetuity, and welcomes the  
1168 Abenaki people as partners in our forest management. We aim to honor and respect the Abenaki people through  
1169 responsible forest management and sustainable land use. We will strive to incorporate Traditional Ecological  
1170 Knowledge<sup>7</sup> into our management practices to foster a healthy forest community, and restore a healthy balance  
1171 between our needs and the needs of the nonhuman people (see footnote below) of the forest. We say their name,  
1172 and we name trails using the Western Abenaki language, to remind us that the Abenaki people are the Original  
1173 People of the Dawnland, Ndaakinnna , out of respect for their culture and special relationship to the land, and to  
1174 acknowledge their historic and ongoing contributions to our community.

1175

1176 Shorter Land Acknowledgement (to appear on kiosk, access points, trail maps, etc.):

1177

1178 The Andrews Community Forest is located within Ndaakinnna, the unceded homeland of the Western Abenaki  
1179 People, who have a unique connection to this land and have been its traditional stewards for millennia.

1180

1181 **Part 2: Indigenous Land Use Agreement**

1182

1183 The Andrews Community Forest (ACF) Management Plan hereby affirms the following rights in perpetuity for  
1184 persons of Indigenous ancestry:

1185

- 1186 1. Hunting and fishing rights for those holding the appropriate license (available free from the Vermont Fish  
1187 & Wildlife Department to registered tribe citizens).
- 1188 2. Rights to collect fungi, plants, and plant parts in a sustainable manner.
- 1189 3. Use of the land for gatherings and ceremonies, including the erection of small, temporary structures  
1190 relevant to ceremonies.

1191

1192 All collections shall occur within the following parameters:

1193

- 1194 1. All gathering shall occur in a sustainable manner that ensures populations are the same size or larger the  
1195 year following each harvest. (*copied from Abenaki Gathering Agreement, Green Mountain Audubon  
1196 Center*)

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<sup>7</sup> Working Definition of Traditional Ecological Knowledge

(US Fish & Wildlife Service: <https://www.fws.gov/nativeamerican/pdf/tek-fact-sheet.pdf>)

Traditional Ecological Knowledge, also called by other names including Indigenous Knowledge or Native Science, (hereafter, TEK) refers to the evolving knowledge acquired by Indigenous and local peoples over hundreds or thousands of years through direct contact with the environment. This knowledge is specific to a location and includes the relationships between plants, animals, natural phenomena, landscapes and timing of events that are used for lifeways, including but not limited to hunting, fishing, trapping, agriculture, and forestry. TEK is an accumulating body of knowledge, practice, and belief, evolving by adaptive processes and handed down through generations by cultural transmission, about the relationship of living beings (human and non-human) with one another and with the environment. It encompasses the world view of Indigenous people which includes ecology, spirituality, human and animal relationships, and more.

- 1197 2. Only hand tools will be used during hunting and gathering activities. *(copied from Abenaki Gathering*  
1198 *Agreement, Green Mountain Audubon Center)*
- 1199 3. Amounts harvested shall be able to be carried out by the person(s) collecting, in bags or baskets.  
1200 Wheelbarrows, wagons or other wheeled or non-wheeled carts or devices may not be used to transport  
1201 harvests on and from the ACF without prior permission of the ACF Committee. *(adapted from Abenaki*  
1202 *Gathering Agreement, Green Mountain Audubon Center)*
- 1203 4. No species listed on federal or state endangered, threatened, or Species of Special Concern lists may be  
1204 collected on the land. Persons of indigenous ancestry shall consult federal and state lists before each  
1205 harvest to ensure that these species are not harvested. If such a person is unsure if a plant they wish to  
1206 collect is on the list, they should further consult with the ACF Management Committee prior to  
1207 collecting. *(adapted from Abenaki Gathering Agreement, Green Mountain Audubon Center)*
- 1208 5. Use of harvested items for limited commercial purposes by tribal citizens, such as selling hand-woven  
1209 baskets or herbal remedies, is permitted with prior notice to the ACF Committee.
- 1210 6. Tribal citizens harvesting on the land may verbally identify their tribal affiliation and reference this  
1211 agreement. *(copied from Abenaki Gathering Agreement, Green Mountain Audubon Center)*
- 1212 7. The ACF Management Committee may prevent collection from lands where the safety of ACF users may  
1213 be impacted or in areas deemed ecologically sensitive. Such restrictions will be clearly posted at forest  
1214 access points and on the ACF website. *(adapted from FirstLight Power gathering agreement)*  
1215

1216 **Part 3: Abenaki Tribal Citizen Advisor to the ACF Committee**  
1217

1218 In order to incorporate Indigenous perspectives and traditional ecological knowledge into ACF management, the  
1219 ACF Stewardship Committee will seek to fill at least one of its seats with an Abenaki tribal citizen.  
1220

1221 The ACF Committee will also consult with an Abenaki tribal citizen with relevant expertise to advise on revisions  
1222 of the ACF Comprehensive Management Plan, revisions of the ACF Forest Management Plan, and additional  
1223 management activities as deemed appropriate. The ACF Committee will secure funds to compensate this  
1224 consultant through town, state, or federal grants, and commits to advocating for the creation of a paid Abenaki  
1225 Consultant position at the state or regional level.  
1226

1227  
1228 **Part 4: Proposed Trail Names and Educational Signage**  
1229

1230 Using Indigenous names is an important step towards addressing the erasure of Indigenous presence from the  
1231 landscape. This section provides suggestions for naming and educational signage that has been reviewed by  
1232 Abenaki tribal citizens and language experts.  
1233

1234 The Western Abenaki language is a spoken language and was not recorded in writing prior to European contact. It  
1235 is a descriptive language, based on root words specifying physical qualities, and frequently several words can  
1236 have the same meaning. For instance, the following are all valid names for the Winooski River:  
1237

1238 *winoskisibo* - onion land river (*winos* means onion, *ki* means land, *sibo* means river)

1239 *winoskitekw* - onion land river (*tegw* or *tego* means wave)

4-2-26

1240 *winoskitegok* - at the onion land river (the *-k* at the end is the locative, so it describes the location, at the..)

1241

1242 This Western Abenaki language learning app includes audio clips of words spoken by heritage speakers:

1243 <https://app.memrise.com/course/5625272/western-abenaki/>

1244

1245 In addition, regional dialects, differences in transliteration, and the historical forced suppression of Abenaki  
1246 culture by US governments all contribute to some disagreement over the “correct” translation of many words. The  
1247 following names proposed for ACF trails have been vetted by language experts Jesse Bruchac and Kerry Wood  
1248 (both tribal citizens), as well as culture keeper Annette Urbschat, to be “correct” for a large portion of speakers of  
1249 the Western Abenaki language.

1250

1251 Proposed Trail Names

1252 Ôwdi Asban (Raccoon Trail)

1253 Ôwdi Awasos (Bear trail)

1254 Ôwdi Maahlakws (Ash Trail)

1255 Ôwdi Mos (Moose Trail)

1256 Ôwdi Nolka (Deer Trail)

1257 Ôwdi Pezo (Lynx trail)

1258 Ôwdi Sedi (White Cedar Trail)

1259 Ôwdi Segôgw (Skunk Trail)

1260 Ôwdi Sibosis (Brook Trail)

1261 Ôwdi Wajo (Hill Trail)

1262 Padosan (Coming on foot - said as the sun goes up in the sky)

1263

1264 Trail Sign Examples

1265

**Ôwdi Nolka**  
(on-oo-dee nol-  
kah)  
  
Deer Trail



1266

1267

1268 Interpretive Sign Example

1269

**Maahlakws (ma-ala-cous) - Ash Tree**

*"Gloosekap came first of all into this country, into the land of the Wabanaki, next to the sunrise. There were no Indians here then. And in this way he made men: He took his bow and arrows and shot at trees, the basket trees, the ash. Then Indians came out of the bark of the ash trees."*



-Wabanaki creation story told

by Molly Sepsis, published in *Algonquin Legends* by Charles G. Leland

Baskets are a fundamental part of the culture and traditions of the Wabanaki, who believe that basket making is a skill that has been passed from weaver to weaver, generation to generation, uninterrupted for thousands of years.

The Wabanaki made splint baskets of specific shapes and sizes to gather and prepare food and trap fish, both before and after European contact. Post-contact, many tribal people used basket making as a way to make a living outside of non-native towns and cities.

Wabanaki baskets are made primarily from long, thin strips of wood, or splints, of the brown ash tree. Known as the "basket tree," the brown ash is considered sacred to many of the native peoples of the northeastern United States and Canada. The wood of the ash tree is also both strong and flexible, making it particularly well suited for weaving durable containers.

The emerald ash borer critically threatens the long-term survival of ash trees today.

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Sample images may be copyright protected.

1270

1271

1272

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1290 **The ACF for People and Wildlife:**  
1291 **Conserving Ecological Integrity; Expanding Recreational Uses and Enjoyment**  
1292

1293 **Meeting Community Interests and Responsibilities**

1294 The Andrews Community Forest has long offered many benefits to Richmond residents and visitors. For  
1295 millennia it has provided food, shelter and other vital needs for local populations of people and wildlife alike.  
1296

1297 Today the ACF's rich resources continue serving our population's health, safety, recreational, educational,  
1298 aesthetic and other interests in many ways, and in keeping with key responsibilities of our town:

- 1299 • The ACF Conservation Easement specifically requires the Town of Richmond to "provide for non-  
1300 motorized, non-commercial recreational, educational and other appropriate community uses" within the  
1301 ACF.
- 1302 • The Easement also requires the Town to "conserve productive forestland, wildlife habitat, biological  
1303 diversity, natural communities, riparian buffers, wetlands, soil productivity, water quality and native flora  
1304 and fauna...and the ecological processes that sustain these natural resource values..."
- 1305 • The 2026 Richmond Town Plan calls for using "best management practices" to "Protect natural communities  
1306 such as wetlands, streams, native species, soil health, and ecological processes on town-owned land" as we  
1307 also "support opportunities for outdoor recreation."

1308  
1309 These equivalent responsibilities reflect Richmond's long-standing commitment to both land conservation and  
1310 outdoor recreation. For generations, Richmond residents have valued access to natural areas for hiking, hunting,  
1311 wildlife observation, and other outdoor pursuits. These activities support physical and mental health, build  
1312 community connections, and foster environmental stewardship. The Andrews family's tradition of welcoming the  
1313 public onto their land, ultimately formalized through the conservation easement, recognizes these activities as  
1314 community benefits to be actively provided and sustained.  
1315

1316 **Achieving Balance**

1317 The ACF was conserved with two key purposes: to protect ecological integrity and to provide recreational  
1318 opportunities to the community. The conservation easement explicitly requires both, reflecting the community's  
1319 recognition that a healthy forest and meaningful public access can be complementary, not competing, values. To  
1320 achieve this, the Town has sought, largely through the ACFC, a clear understanding of these responsibilities and  
1321 how each can be achieved in concert with the other.  
1322

1323 For example, early in the process the Town surveyed town residents to learn their preferences for allowed  
1324 activities in the ACF. The ten most favored, in order of preference, were hiking, running, hunting, snowshoeing,  
1325 skiing, bird- and wildlife-watching, picnicking, biking and dog-walking<sup>8</sup>. Later input focused on expanding  
1326 mountain biking use in the ACF, including building connections to abutting trail systems.  
1327

1328 Recreational trails are a well-established, much-loved part of the Vermont landscape. The oldest long-  
1329 distance trail in the U.S. is Vermont's Long Trail, running 272 miles from Massachusetts to Quebec.

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<sup>8</sup> Visioning Process Results (2017) in [2018 ACF Management Plan](#), page 279

1330 For decades in Richmond, the Andrews family welcomed hunters, hikers and snowmobilers through  
1331 their land to what is now the ACF, ultimately signing a conservation easement guaranteeing public  
1332 recreational access to the forest in perpetuity along with strong ecological protections. This  
1333 commitment reflected a broader Richmond value: that access to and protections for natural areas  
1334 supports community wellbeing.

1335  
1336 The many benefits that recreational trails bring to people’s physical and mental health and relaxation  
1337 are widely documented. In Richmond, these benefits are evident in the families who hike together on  
1338 weekends, the bikers who use trails for thrills and stress relief, and the nature enthusiasts who find  
1339 solace and inspiration in the forest. Trails can also bring economic gains to the local economy when  
1340 residents buy equipment at local outdoor gear stores and visitors stop for gas, meals and refreshments  
1341 in town businesses.

1342  
1343 In step with national and global trends, trail visitations are booming in Richmond, as evidenced by the bike rack-  
1344 equipped cars that can be seen parked near popular trails all around town. Apps like Trail Finder and Trailforks  
1345 map more than 100 miles of trails in Richmond and surrounding towns – single use, multi-use, and for people  
1346 with physical disabilities. Work is underway on building the Velomont trail network, planned to run the length of  
1347 Vermont, including in or near Richmond, and optimized for mountain biking.

1348  
1349 This growing enthusiasm for outdoor recreation creates both opportunities and responsibilities. The ACF can  
1350 serve as a destination for diverse forest experiences while also demonstrating how thoughtful management can  
1351 sustain both recreational access and ecological health for future generations.

1352  
1353 Residents also expressed concern about the impacts new types and intensities of trail traffic would  
1354 have on forest ecology and recreational enjoyment alike. This concern is borne out in research studies  
1355 and meta-studies, including in Vermont<sup>9</sup>.

1356  
1357 Through this process, today we know much more about the ACF and residents’ desires than we did in 2018, when  
1358 the forest was conserved. Originally, our knowledge of the ACF’s ecology was limited to expert but relatively  
1359 brief ecological surveys conducted by Vermont Land Trust, Audubon Vermont, and a five-town inventory project  
1360 called “Science to Action.” Since then, the ACF’s ecological resources have been further documented, detailed  
1361 and studied by the UVM Field Naturalist Program, Arrowwood Environmental and several botanists, wildlife  
1362 biologists and naturalists. Vermont Conservation Design, the State framework for conserving biodiversity across  
1363 Vermont, gives ACF multiple “priority” and “high-priority” designations for its conservation values, including  
1364 interior areas, natural communities, wildlife habitats and connectivity features. The ACF Management Plan draws  
1365 upon the large bank of research – much of which was not available when the ACF’s first management plan was  
1366 published – describing how to avoid the conflicts and negative impacts that even seemingly benign human  
1367 activities can bring to the forest and its users and inhabitants.

1368

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<sup>9</sup> Naughton, New Hampshire Fish & Game Department.

1369 For example, the Management Plan designates two distinct and complementary management areas within the  
1370 ACF. Described in more detail below. Each has its own focus and yet together they help to ensure the long-term  
1371 conservation of the features that give the ACF such tremendous value to our community and beyond.

1372  
1373 **A Comprehensive View**

1374 As a practical and effective way to safeguard a parcel's ecological integrity and functions, Vermont's Agency of  
1375 Natural Resources recommends that forest managers avoid taking a species-by-species approach to conservation.  
1376 Instead, it urges protection of those elements of the broad landscape that sustain multiple species in myriad ways.

1377  
1378 To quote the Agency's guide to this topic<sup>10</sup>, "focusing conservation planning efforts on these elements will  
1379 effectively address many of the public interests associated with the natural environment." To ensure conservation  
1380 of the complex web of plants, animals, places and other elements that comprise a healthy forest – all the while  
1381 serving a suite of public interests such as education, forestry and recreation – this Management Plan looks at the  
1382 components of ACF's ecological health at three levels: landscape, community and species.

1383  
1384 **Landscape-Level Elements**

1385 Contiguous Forest

1386 One of the most outstanding features of the Andrews Community Forest is what it lacks – roads, buildings,  
1387 driveways, agricultural land and other forms of development and disturbance. Because of the integrity of the  
1388 ACF and its contiguity with other largely undisturbed forest tracts, the State of Vermont's Vermont Conservation  
1389 Design designates nearly all of the ACF's as a "High Priority" area for interior forest conservation.

1390  
1391 This reflects the importance of the ACF and other large expanses of intact forest in supporting the biological  
1392 requirements of many native plants and animals, including those sensitive to human disturbance. They create the  
1393 large, intact landscapes critical to the continuing survival of Vermont's widest ranging animals, species such as  
1394 black bear, bobcat, moose and others known to frequent the ACF. They serve the needs of interior-nesting birds,  
1395 who in a more open or disturbed landscape could suffer excessive predation. The ACF provides them and other  
1396 wildlife with vital feeding habitat and space to roam, find mates and promote genetic diversity.

1397  
1398 Contiguous interior forests like the ACF also buffer species against the negative consequences of forest  
1399 fragmentation, climate change and human disturbances elsewhere. They give wildlife new places where they can  
1400 thrive, should previous territory become untenable.

1401  
1402 Habitat Connectivity

1403 The ACF Conservation Easement notes the ACF's location in an area "important for regional landscape  
1404 connectivity." The State of Vermont recently bolstered this assessment by assigning "Priority" conservation  
1405 status to much of the ACF for its connectivity features, primarily its northern area. Along with neighboring

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<sup>10</sup> Austin, J.; Alexander, C.; Marshall, E.; Hammond, F.; Shippee, J.; Thompson, E.; Vermont League of Cities and Towns. 2004. [Conserving Vermont's Natural Heritage: A Guide to Community-Based Planning for the Conservation of Vermont's Fish, Wildlife, and Biological Diversity](#). Vermont Fish and Wildlife Department and Agency of Natural Resources. Waterbury, VT.

1406 forests, ecologists recognized the ACF for its contributions to plant and wildlife connectivity across Vermont and  
 1407 into adjacent states and Quebec.

1408  
 1409 As such, the ACF assists bear, bobcat, moose, turkey and others in moving from place to place to meet season-  
 1410 by-season and other survival needs. Connectivity and contiguity combine to foster species intermixing and  
 1411 breeding, making for healthier populations across the landscape. And as climate change continues, the ACF is  
 1412 another link in enabling animals to adjust their ranges in response to warmer weather advancing northward.

1413  
 1414 Enduring Elements

1415 The ACF's enduring features are those that resist change, even over millennia, and play fundamental, long-  
 1416 standing roles in shaping and sustaining the landscape. For example, south-facing slopes created millions of  
 1417 years ago host different sets of flora and fauna than those with less exposure to sunlight. Minerals and seeps in  
 1418 the ACF's rocky ledges nurture plant communities unique from those found in looser, lower elevation soils.  
 1419 Crevices in rocky terrain shelter far-ranging mammals from bobcats to bats.

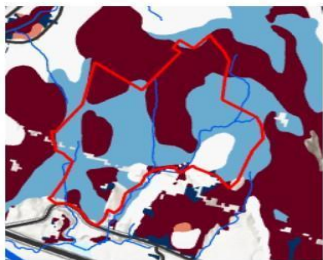
1420  
 1421 Bedrock and surficial geology

1422 The ACF spans lowland and high elevation terrain, with its bedrock geology generally split on a north-to-south  
 1423 line. Both help account for the forest's biodiversity. In the southern areas, the meltwaters of glacial Lake  
 1424 Vermont deposited sand, gravel and clay formations. Above, the soil is built upon formations primarily of  
 1425 Underhill and Pinnacle bedrock 500 or more million years old.

1426  
 1427 Underhill bedrock dominates the forest from its northernmost point to its western edge. Along with the  
 1428 neighboring Pinnacle bedrock, it has dense, metamorphic, sedimentary rocks with visible cracks and fractures.  
 1429 Underhill's more distinctive silvery-green rocks combine phyllite and schist, with the minerals chlorite,  
 1430 muscovite, and quartz.

1431  
 1432 To the east, the Pinnacle Formation features finer-grained, gray-to-buff schistose greywacke rock. Its layers show  
 1433 the formation's metamorphic origins from bits of rock, mud, and debris. The minerals present are quartz, sericite,  
 1434 biotite, and chlorite.

1435



1445 *Soil suitability for trail construction in the ACF, with blue areas showing the best areas. Intensive use can cause soil compaction, erosion and degraded vegetation. Source: [Forest Recreation Impacts on Dimensions of Northeast Regional Forest Health](#), Forest Ecology Monitoring Cooperative.*

1446 Over the eons, wind, water and glaciers deposited loose materials across the ACF, which combined with glacial till – boulders, stones, pebbles and fine silt deposited by glaciers at the end of the last ice age, about 14,000 years ago. Soil particles deposited by post-glacial Lake Vermont can be found on roughly half of the ACF's elevation range, up to 600 feet.

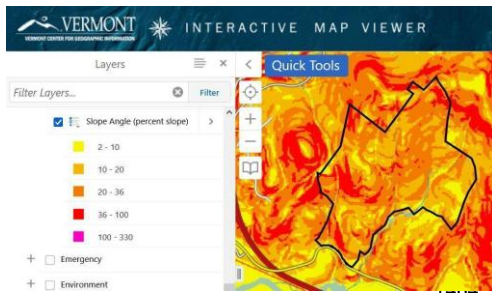
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1447

#### 1448 *Elevation*

1449 The ACF rises from an elevation of about 400 feet above sea level at the parking lot to 1,240 feet along its  
1450 northern ridgeline. This gives it the greatest elevation range among conserved properties in Richmond, with soil  
1451 and temperature diversity to match. In contrast, most of Vermont’s conserved land lies above 2,000 feet, where  
1452 biodiversity is the least. Protecting the ecological functioning of lower areas like the ACF is important to  
1453 conserving local and state-wide biodiversity.

1454



*Terrain slopes color-coded according to steepness ranging from yellow to red highlight the ACF’s rugged terrain and susceptibility to erosion and washouts, particularly as warmer weather brings more intense rainfalls.*

1465

#### 1466 *Climate*

1467 Though today our climate appears to be in a period of unprecedented rapid change, a forest’s climate is also  
1468 considered to be another enduring element. The ACF is part of the Northern Green Mountains biophysical  
1469 region, which is cooler and wetter than other portions of the State. However, life in the ACF is also influenced by  
1470 its proximity to the warmer Champlain Valley biophysical region as well as its south-facing slopes. The result is  
1471 a forest dominated by tree species adapted to warm, dry sites – with poorer soils on upper elevations, and slightly  
1472 richer forest soils on lower elevations (thanks to the glacial deposits).

1473

#### 1474 **Community-Level Elements**

1475 (Map: VCD “Natural Communities” prioritizations)

1476 *The ACF’s natural communities, mostly clustered above the powerline corridor and former VAST trail, are rated*  
1477 *“Highest Priority” and “Priority” by Vermont Conservation Design.*

1478

1479 A natural community is an interacting assemblage of plants and animals, their physical environment, and the  
1480 natural processes that affect them. While named for their dominant plants, natural communities encompass  
1481 distinct mixes of mutually dependent plants and animals from fungi and microbes to mammals and trees, along  
1482 with their settings amidst particular soils, bedrock, and ecological processes.

1483 To date 97 types of natural communities have been found across Vermont. The ACF has at least 10, ranging from  
1484 small patches of wetland seeps to a multi-hundred-acre stand of Northern Hardwood Forest and its Mesic Red  
1485 Oak, White Pine and Hemlock associated communities.

1486

1487 Conserving the ACF’s natural communities offers a practical way to understand and maintain the Forest’s  
1488 biodiversity. Otherwise, we would be faced with the task of trying to conserve tens of thousands of individual  
1489 species.

1490

1491

*Upland Natural Communities*

1492

Three upland natural communities comprise most of the forest: Mesic Red Oak-Northern Hardwood Forest, White Pine-Northern Hardwood Forest.

1493

1494

- The White Pine-Northern Hardwood Forest community occupies much of the southern portion of the forest, indicative of areas formerly in pasture or cultivated.

1495

1496

- In the northern part of the forest, roughly north of the VELCO transmission line, the Mesic Red Oak-Northern Hardwood community dominates, extending well beyond the ACF's borders into the surrounding forest block. These are uncommon community types, occupying the Forest's droughty ridges and south-facing summits and featuring shallow soils and frequent bedrock outcrops. The small size of these stands makes them especially vulnerable to disturbances. As diseases claim the Forest's few remaining sources of beechnuts and butternuts, Dry Oak acorns will become even more critical food sources for black bears, wild turkeys, coyotes, corvids and other species.

1497

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1505

- Several patches of Hemlock-Northern Hardwood Forest provide deer and dozens of other species with vital wintertime shelter and deep, cooling summertime shade on secluded, south-facing slopes throughout the Forest.

1506

1507

*Wetland Natural Communities*

1508

Though the ACF is primarily a landscape of upland natural communities, wetland communities can be found in low areas, narrow benches and areas of groundwater discharge. Though their total acreage is relatively small, rarity in the ACF makes them much more important.

1509

1510

1511

- Two of the ACF's three Shallow Emergent Marsh communities are on its southern border and continue off-property. Each is a beaver-influenced wetland with a diverse mixture of open water, herbaceous vegetation, and occasional shrubs. The northern marsh sits in a scenic low area surrounded by upland forests. These marshes are significant for a wide range of functions and values including water quality, erosion control, and floodwater attenuation. Being part of a public, conserved parcel, they also offer opportunities for education and research.

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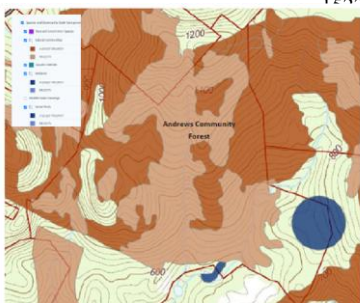
Perhaps the most important function that they serve is that of wildlife habitat. The mosaic of open water and herbaceous vegetation in a forested matrix is ideal for a wide variety of songbirds, raptors, mammals, reptiles, and amphibians, especially as surrounding areas are kept relatively undisturbed by human activity.

1519

1520

1521

- The ACF's seeps are small, wet areas of groundwater discharge that often form the headwaters of streams. They are among the first areas in spring to thaw and grow vegetation, making them important food sources for black bears, American woodcock and other wildlife after winter's privations. Certain amphibians thrive in woodland seeps, including northern dusky, northern two-lined, and spring salamanders. They are also important for providing a cold, clean source of water for wildlife and downslope streams, even in the driest summer months. Three seeps have been mapped to date in the ACF, but more are likely to exist. Their size and tree cover make them difficult to find using

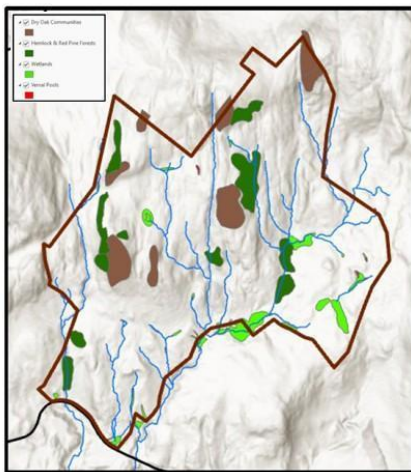


aerial and satellite photography, and direct field observation remains the best way to locate and assess them.

- Four Vernal Pools have been identified in the ACF to date, with two confirmed and described in the Baseline Report (Diamond, 2017) while two others await field confirmation. The two identified pools are likely to be state-significant examples of their natural community type. Each contained many hundreds of wood frog and spotted salamander eggs in what appeared to be a stable breeding habitat for these and many other species.

The surrounding upland landscape, though parts were harvested before the Town acquired ownership, provides valuable year-round habitat for the vernal pools' breeding amphibians. This has earned the pools special protection in the Conservation Easement, which requires at least a 100' undisturbed buffer around each pool. This is surrounded by a 500' secondary protection zone where timber harvesting aimed at enhancing amphibian habitat is allowed. The Easement also allows foot paths in the outer, 500' ring. The ACF Management Plan recognizes the local importance and sensitivity of these small but mighty contributors to the Forest's biodiversity.

#### Streams and Riparian Areas



1565

*The ACF's streams and wetlands, along with Hemlock (green) and Dry Oak (brown) natural communities*

The Andrews Community Forest is located within the Winooski watershed. Water from forests, fields and streams runs off into the Winooski River, which flows into Lake Champlain. Surface waters on the property include wetland natural communities (described above), three headwater streams, and two confirmed vernal pools. Maintaining forested riparian cover adjacent to these resources is vital for the protection of water quality and conservation of important aquatic habitats.

Several streams arise on and meander through the property on their way to the Winooski River and, eventually, Lake Champlain and points north to the Atlantic Ocean. Streams may flow perennially or intermittently. The ACF has three perennial streams, including one identified by Arrowwood

within the Forest's major wildlife movement corridor.

Streams feature channels with defined beds and banks that confine low or moderate flows. Beginning at the tops of stream banks are riparian areas – typically undisturbed zones of trees, shrubs, ground cover plants, a duff layer, and an uneven ground surface.

Forested streamside riparian habitats such as those in the ACF offer a suite of ecological benefits. They:

- Anchor shorelines and limit streambank erosion
- Filter soil and silt from stormwater run-off, greatly reducing degradation of water quality from heavy rains.

4-2-26

- 1575 • Provide plant and animal life with organic matter, nutrients, shade and coarse woody debris, sheltering  
1576 and feeding insects, fish and amphibians.

1577

1578 Terrestrial food chains depend on streams and riparian areas as well. For example, their flowing waters create  
1579 microclimates that often host the first plant life to emerge in the spring. Black bears will sometimes seek out  
1580 these plants even while ice can still be found along the stream edges. Mink, fisher, bobcat and owls follow soon  
1581 behind to seek out the frogs and salamanders endemic to these areas.

1582

1583 The ACF's Conservation Easement contains strict protections for riparian areas to safeguard water quality even  
1584 beyond the ACF's borders. Due to their importance to many types of wildlife, this Management Plan recognizes  
1585 the vulnerability of riparian areas and their broad far-ranging ecological functions to nearby human disturbances.

# Andrews Community Forest

## Species Typical of its Natural Communities

Natural Community										Natural Community									
Northern Hardwood Forest	Hemlock Forest	Hemlock N. Hardwood Forest	Red Pine Forest	Dry Oak Forest	Dry Red Oak White Pine Forest	Shallow Emergent Marsh	N. Hardwd. Seepage Forest	Seep	Vernal Pool	Northern Hardwood Forest4	Hemlock Forest5	Hemlock N. Hardwood Forest6	Red Pine Forest7	Dry Oak Forest8	Dry Red Oak White Pine Forest9	Shallow Emergent Marsh10	N. Hardwd. Seepage Forest11	Seep12	Vernal Pool
<b>Associated Species</b>										<b>Associated Species</b>									
American woodcocks	*									N. two-lined salamanders								*	*
Barred owls		*			*					N. water thrushes								*	*
Black bears	*			*	*	*		*		N. leopard frogs						*			*
Blackburnian warblers		*	*							N. saw-whet owls		*							
Black-troated blue warblers	*									Pine warblers			*	*	*				
Blue-headed vireos		*								Porcupines	*	*	*				*	*	
Bobcats	*	*	*	*	*	*	*	*	*	Raccoons					*				*
Broad-winged hawks	*									Red squirrels				*					
Bullfrogs						*				Red-breasted nuthatches		*							
Canada warblers							*	*		Red-eyed vireos	*								
Chipmunks			*							Red-shouldered hawks									
Eastern red-backed salamanders	*									Red-winged blackbirds					*				
Eastern wood peewees			*	*						Scarlet tanagers	*								
Fishers		*		*						Spotted salamanders	*	*		*					
Gray foxs	*									Spring peepers					*	*			
Gray squirrels			*	*						Spring salamanders						*	*		
Great blue herons				*						Swamp sparrows						*			
Green frogs					*					Turkeys			*		*	*			
Hermit thrushes	*									Veerys						*	*		
Jefferson salamanders			*							White-tailed deer	*		*		*	*	*		
Minks			*	*						Winter wrens						*	*		
Muskrats				*						Wood frogs				*					
N. dusky salamanders						*	*			Wood thrushes			*						

Source: *Wetland, Woodland, Wildland* by Elizabeth H. Thompson, Eric R. Sorenson and Robert J. Zaino. Second Edition, 2019. Vermont Fish and Wildlife Department, The Nature Conservancy and Vermont Land Trust.

1587 **Species-Level Elements**

1588 Some features of a forest that are important to its ecological integrity and biodiversity do not fit neat  
1589 classification into either landscape- or community-level classification. They are vital to the survival of certain  
1590 species, and critical to include in any conservation plan.  
1591



1608

Rare, Threatened, and Endangered Species

To date only one such species, the broad-beech fern (left), has been found in the ACF. A patch of them was discovered during a fine-scale assessment of the proposed route for a new trail.

Bobcats, evidence of which has been found in several parts of the forest, are not considered rare, threatened or endangered, but are listed by the State of Vermont as a Species of Greatest Conservation Need. On a broader scale, they are on the list of Regional Species of Greatest Conservation Concern in the Northeastern U.S.<sup>11</sup>

Protecting these wide-ranging species amounts to protecting forest contiguity and connectivity, and their need for wide-ranging, undisturbed places and sheltered habitat to raise their young. (See Outcrops and Ledges, below.)

1609

1610 Wildlife Wintering Areas

1611 Much of ACF is listed on state maps as “potential” whitetail deer wintering areas, due to the extent of the forest  
1612 that faces south and is covered by thick stands of hemlock that ward off wind and heavy snow accumulations.  
1613 East- and west-facing slopes can serve as wintering areas as well. To save energy when food is scarce, deer will  
1614 often survive by congregating in these areas when snow reaches depths of 15 inches or more. These winter  
1615 habitats also attract bobcat, coyote, and scavenging bear and fisher looking to scavenge weakened and dead deer.  
1616 Other animals such as conifer-nesting birds, porcupines, and fox also utilize these habitats.

1617

1618 Mast Stands

1619 The seeds of shrubs and trees that provide food for wildlife are known as “mast.” “Hard mast” refers to nuts such  
1620 as acorns, beech nuts and butternuts, while “soft mast” is defined as berries from a variety of species. Hard mast  
1621 provides high-calorie food for black bears, turkey, fisher and other wildlife, and soft mast such as blueberries and  
1622 huckleberries are a particular favorite of black bears and birds alike.

1623 As a food source for bears, *Conserving Vermont’s Natural Heritage* emphatically states in bold italics, “**Simply**  
1624 **put, these stands of beech and oak used by black bear are absolutely essential for the survival and**  
1625 **reproduction of this species in Vermont!**”<sup>12</sup> It cites research by Elowe and Rogers that found a direct correlation

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<sup>11</sup> Terwilliger, 2013

<sup>12</sup> Austin et. Al. P. 89

1626 between the availability of hard mast in the fall and the minimum reproductive age of bears, productivity rates  
1627 and cub survival.

1628  
1629 Black bears are ecologically important to the ACF and any large forest. By spreading seeds through their scat for  
1630 dozens of square miles in their wanderings they are a key agent in forest regeneration and diversity. (Fishers are  
1631 another.)<sup>13</sup> However, beech stands in the ACF are suffering from fatal beech bark disease, along with other  
1632 stands across the state. A newer, beech leaf disease is also spreading into our region. This greatly raises the  
1633 importance of acorns as mast, which, to provide the same amount of nutrition, must be consumed in greater  
1634 quantities than beech nuts.

1635

1636 Outcrops and Ledges

1637 The ACF’s outcrops and ledges support a variety of natural communities and associated wildlife, depending on  
1638 their geological composition and aspect. Their crevices can shelter porcupines, winter wrens, insects, bats and  
1639 snakes. Bobcats favor ledges and small caves for courting, breeding and keeping their young safe from less-  
1640 nimble predators. Evidence of bobcats in the ACF is not hard to come by, including, predictably, in the ledgy  
1641 terrain below a Dry Oak natural community no doubt rich with squirrels, chipmunks and other prey. Beyond the  
1642 ACF but well within bobcat range are known denning areas – among the westernmost of the ACF’s forest block.

1643

1644 Early Successional Forest and Shrubland



Wild turkey feeding on clover in sunny patch of forest.

1655

5 Healthy forests feature trees of a variety of ages, each  
6 providing their own ecological services to the  
7 landscape as a whole. Heavy cutting, such as was  
8 conducted decades ago in the ACF, can rob forests of  
9 this diversity. Fortunately, the ACF’s Forestry Plan is  
10 designed to restore this age diversity faster than wind,  
11 fire and disease would eventually accomplish on their  
12 own. Careful harvesting and patch cuts are designed to  
13 restore young forests and the food and other services  
14 they offer wildlife.

1656

Among the beneficiaries are ruffed grouse, American woodcock, and

1657 scarlet tanagers – the latter which have entertained springtime birding groups in the ACF. Another significant area of such growth  
1658 is found beneath the powerlines, where the utilities’ regular maintenance keeps tree heights down, although the methods and  
1659 materials used may limit the results for some wildlife and ecological processes.

1660

1661 Wildlife Connectivity Corridors

1662 The ACF’s permanent and intermittent streams and its riparian areas serve as safe, convenient and often food-  
1663 rich routes for travel up, down and across the forest’s 800-foot elevation span. In unprotected forests the  
1664 connectivity functions of such corridors are vulnerable to human disturbance or outright destruction, highlighting  
1665 the importance of safeguarding the viability of those within the ACF.

1666

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<sup>13</sup> Morse. 2023.

1667 **New Perspectives**

1668 Beyond looking at the key functions and features of the ACF itself, the Committee considered a range of factors  
1669 that had changed or come to light since the original, 2018 Management Plan was written, among them:

- 1670 • *The ACF's ecological role and importance.* Assessments by UVM, Arrowwood and others since the  
1671 original plan was written confirm the ACF's value for black bear, bobcat, whitetail deer, fisher and other  
1672 wildlife, especially in the northern, least developed and visited areas of the forest.
- 1673 • *Early proposals* for building several miles of new trails and associated bridges and boardwalks, some to  
1674 connect the forest to trail systems on adjoining private land and to networks beyond.
- 1675 • *Advances in recreation.* Growing interest in outdoor recreation reflects both national trends and  
1676 Richmond residents' commitment to active, outdoor lifestyles. New technologies enable more efficient  
1677 and fast-paced travel, enabling adventures deeper into the landscape. Trail apps like Trail Finder and  
1678 Trailforks both increase access to natural areas and provide valuable tools for helping monitor and  
1679 manage use to protect ecological resources and recreational experiences.
- 1680 • *New connections.* Two of the three neighboring landowners with developed trail systems on their  
1681 properties directly connect those systems to ACF trails.
- 1682 • *Continuing research showing wildlife's sensitivity to trail traffic.* Recently published scientific studies  
1683 and literature reviews further explain how trail traffic can fragment, degrade and destroy productive  
1684 wildlife habitats within "zones of influence" extending up to one thousand feet or more from the trails  
1685 themselves.
- 1686 • *Limited space for sustainable trail development.* Even buffering sensitive areas by the 330 feet  
1687 recommended by a broad Vermont meta-study would block trail development in much of the ACF. The  
1688 steepness, wetness and soil suitability of much of the ACF's terrain is another concern, and could subject  
1689 some trail development projects to state and local erosion control requirements.
- 1690 • *The Indigenous Land Acknowledgement.* The Town of Richmond has **pledged [IS: where?]** to foster a  
1691 healthy forest community by incorporating into our management practices the traditional ecological  
1692 knowledge that sustained our area's forests for thousands of years.
- 1693 • *Assessments of needs.* As noted above, there are a number of trails available to the public within  
1694 Richmond and its neighboring towns, most on private lands ACF hiking and biking trails directly  
1695 connect to additional miles of trails on two neighboring properties – VYCC and Maple Wind Farm.

1697 **Protecting Forests While Welcoming Recreation**

1698 The ACF Management Plan's approach to meaningfully protecting the forest and accommodating diverse,  
1699 sustainable recreational and other community wishes centers on balancing ecological and recreational needs.

1700  
1701 The Management Plan provides diverse, sustainable recreational opportunities including trails for varied abilities  
1702 and interests, connections to neighboring trail networks, and experiences ranging from accessible family outings  
1703 to backcountry adventures. These recreational goals are achieved through thoughtful design and management  
1704 that sustain both the forest's ecological health and its capacity to serve the community.

1705  
1706 The Management Plan establishes two distinct management zones, each based on its particular topography,  
1707 sensitivities and accessibility:

- 1708 • *Southern Management Zone.* This zone is designed to support a wide range of outdoor activities while  
1709 following sustainable trail-building practices. This area allows for a higher density of trails, including

those open to bicycles and other non-motorized uses, and is intended to accommodate a variety of user experiences including hiking, biking and nature exploration for people of a wide range of ages and abilities. Trails are constructed and monitored to minimize erosion and protect natural features, with careful attention to grade, drainage, and long-term maintenance. Route 2, the ACF parking lot and existing trail and utility road connections provide convenient access to this area (and also simplify trail construction and maintenance for the Town). This zone fulfills the easement's directive to provide meaningful recreational opportunities by offering trails for diverse users and abilities, welcoming forest experiences while concentrating higher-impact activities away from the most sensitive ecological areas.

- *Northern Management Zone.* Managed to prioritize conservation, this zone also maintains its tradition of providing hiking, hunting and other forms of low-impact, backcountry recreation. Following trail design best practices, this zone includes a limited number of simple footpaths, carefully routed to avoid sensitive ecological areas and minimize disruption to wildlife. , bicycles and mechanized uses are not permitted, helping to maintain a quiet, secluded environment that supports habitat preservation and nature observation.

Throughout the ACF, the Management Plan applies a variety of measures to mitigate impacts on both the forest's wildlife and people wanting to experience its diverse recreational opportunities, particularly the mountain biking community. These measures include:

- *Clear parameters.* The Management Plan's parameters for new trail approvals and construction are designed to clarify and expedite those processes.
- *Reduced buffering.* The widest buffer zones around the ACF's natural areas are significantly smaller than the minimums recommended in Vermont and New Hampshire wildlife agency publications<sup>14</sup> To also allow for greater trail coverage, buffering for wetlands, streams and riparian areas is a third to a sixth less than for the ACF's other sensitive areas.
- *Seasonal scheduling.* By adjusting trail openings and closures according to seasonal wildlife needs for food, shelter and breeding, more miles of trail can be kept available for human use at certain times of the year.
- *Case-by-case flexibility:* Allowances are made for new trails that might need to encroach on buffered areas by only a small amount.

Together, these measures reflect a balanced approach to forest management, honoring both ecological stewardship and public access. This helps the Town meet the full suite of its legal obligations under the Conservation Easement and align with Town Plan policies. It also provides the community with an expanded range of recreational opportunities balanced with lessened impacts on its most sensitive and vulnerable resources.

#### Special considerations

- *Dogs.* The rules for bringing dogs into the ACF are published on the ACF Committee's web page. They draw on guidelines used at the Green Mountain Audubon Center in Huntington and other areas with special qualities and protective needs similar to the ACF's. The rules reflect wildlife's response to the sight and long-lingering scents of even the friendliest and most securely leashed dogs, which they will fear as a predators. This can lead to abandoned dens, nests and habitats along with undue stress and

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• <sup>14</sup>Naughton, New Hampshire Fish & Gamer

1751 exhaustion on the animals, and diminished chances of people being able to enjoy the sights and sounds of  
 1752 the ACF's wildlife due to their abandonment of the landscape.

- 1753 • *Hunting*. Benefits include control of the ACF's deer population, important to restoring healthier  
 1754 diversities of age and species to the forest's trees and understory. Hunters and non-hunters can share the  
 1755 landscape at any time of year. The ACFC urges each to take safety precautions such as wearing highly  
 1756 visible clothing and keeping dogs leashed. Citizens of recognized Abenaki tribes may obtain free hunting  
 1757 licenses from the state of Vermont. See the posted guidelines for the latest requirements and advice.
- 1758 • *Trapping*. Due to safety hazards to visitors, pets and wildlife, trapping is not permitted in the ACF.  
 1759 *Snowmobiling*. Previously the ACF contained a snowmobile trail that was part of the VAST trail  
 1760 network. Snowmobiling may be permitted to resume on the former VAST trail subject to a use contract  
 1761 ensuring compatibility with the ACF Conservation Easement and Management Plan. Motorized  
 1762 recreation is otherwise prohibited in the ACF.

## 1763 **Maps**

- 1764 • Conservation Easement
- 1765 • Recreation
- 1766 • Sensitive Features and Protective Buffers
- 1767 • ACF and Vermont Conservation Design Priorities
  - 1768 ○ Forest Blocks
  - 1769 ○ Connectivity Blocks
  - 1770 ○ High-Value Wildlife Habitat
  - 1771 ○ Natural Communities
  - 1772
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