USE VALUE APPRAISAL

FOREST MANAGEMENT PLAN

FOR

Schlueter Prescott Family Revocable Trust

St Johnsbury, VT
SPAN #558-176-10475

Update for the 10 years beginning April 1, 2024

PREPARED BY:
David Senio
VT Forester LIC#148.0122517
PO Box 87, Passumpsic, VT 05861
senioforestry@gmail.com 802.748.5241

I (we) certify that my (our) forest land, exclusive of any housesite or other developed portion, is at least 25 acres in size and is under active long-term forest management for the purpose of growing and harvesting repeated forest crops in accordance with minimum acceptable standards for forest management. These management standards include following the practices outlined in the booklet *"Acceptable Management Practices for Maintaining Water Quality on Logging Jobs in Vermont"* in order to control stream siltation and soil erosion.

By signing below, I understand I am signing my forest management plan and by doing so I agree to manage according to the current approved plan.
(Printed Names, Signatures and Dates)

Sally E. Schlueter, Trustee — Date: 2/16/2024

Richard L. Prescott, Trustee — Date: 2/14/2024

****

Approved for Use Value Appraisal by _____
County Forester — Date

PURPOSE

The purpose of the following plan is to provide information about the existing stand conditions and to provide direction in the manipulation of forest stands to meet landowner objectives using sound silviculture practices. This report is intended to meet the standards of the Use Value Appraisal program. This plan is written for Schlueter Prescott Family Revocable Trust, St. Johnsbury, VT.

GOALS for LAND MANAGEMENT

In order to provide direction for future activities the goals of the landowners consist of the following:

1. to maintain and enhance water quality and wildlife habitat by considering stream corridors, wetlands, wildlife travel corridors, and core wildlife habitats for a variety of game and nongame animals.
2. to maintain a healthy and aesthetic forest landscape
3. to build, rebuild and maintain access roads and trails for recreational use as well as the extraction of forest products.
4. to produce fuel wood, pulpwood and saw timber for sale in the market and for domestic use. Harvests will employ various silvicultural systems. The stands will be improved during each harvest to ultimately have higher quality stands.

LOCATION and GENERAL DESCRIPTION

This property is located in the town of St. Johnsbury, Caledonia County of Vermont. It lies along the Moose River. Access to this property is via Route 2.

Boundary identification and maintenance is highly recommended in order to protect the integrity of the property. The majority of the boundary was painted in 2018. Recommend refresh around the year 2028.

I. PROPERTY SUMMARY

Name: Schlueter Prescott Family Revocable Trust

Address: PO Box 3, East Saint Johnsbury, VT 05838

Town Where Land is Located: St Johnsbury

911 Address: 951 US Rt 2 East

Acreage / Grand List Description: 392.30 acres

School Property Account Number (SPAN): 558-176-10475

Orthophoto [Number, Series 5000 (NAD83 preferred), year]: 192212, 192216, 196212, 196216

Biophysical Region: Northern Vermont Piedmont

II. PARCEL RESOURCE INFORMATION

- **Soil and Water Resources:** These management standards include following the practices outlined in the booklet *"Acceptable Management Practices for Maintaining Water Quality on Logging Jobs in Vermont"* in order to control stream siltation and soil erosion.

- **Conservation Easement held by Vermont Land Trust**
  See the Vermont Land Trust Map (not to scale) in Appendix for location of:
  Wetland Protection Zones (WPZ)
  Ecological Protection Zones (EPZ)
  See the Appendix for descriptions/protection requirements of the above.

- **Recreation/Aesthetics (optional):** landowners maintain a primary loop trail for recreation

- **Cultural Resources (optional):**

- **Wildlife Habitat (optional):**

III. STAND DESCRIPTION & TREATMENT PLAN

EXISTING STAND DESCRIPTION

Stand Number: 1 **Acres:** 162.40

Stand Cover Type: Mixed

UGS HW	UGS SW	Red Maple	Hemlock	White Pine	Balsam Fir	Sugar Maple	Yellow Birch	White Birch	Poplar	Spruce	Black Cherry	White Ash
15%	8%	22%	15%	13%	11%	4%	4%	4%	2%	1%	1%	1%

UGS = unacceptable growing stock HW=hardwood SW=softwood

Age Class Structure: Even-age

Site Class: II-III

Site Index or Soil Series: Vershire Glover complex; Vershire Lombard complex

Significant Wildlife Habitat or Special Places and Sensitive Sites Description *(if applicable)*: Wetland Protection Zone (WPZ) per Vermont Land Trust. See Appendix.

Stand History: Harvest in 2011-2012 created gaps in canopy. The majority of theWhite Pine dominants have a good live crown ratio and will endure.

Stand Health *(include insects, disease, invasive plants, etc. & levels)*: honeysuckle on edge of woods/open land and on major skid trails

Sampling Method: Point

Sampling Date: 12/16/23 **Number Points/Plots:** 30 **BAF/Plot Size:** 10

Quadratic Mean Stand Diameter (inches): 7.9

Trees/Acre: 231

Basal Area (ft^2/acre):

Total: 78 **Acceptable Growing Stock:** 60 **Unacceptable Growing Stock:** 18

Regeneration Data: 33% established; 33% scattered; 33% absent. Regeneration on skid trails is heavily browsed. Much of the Balsam Fir is browsed to 5 feet.

DESIRED FUTURE STAND CONDITION

Long Range Silvicultural Objectives: Uneven-age Management

PLANNED TREATMENTS

Treatment Year: NA

Treatment: No Activity due to low stand density

TSI is suggested by NE-6 prescription #8 but it is too early; the opportunity to create harm (such as epicormic branching due to overzealous thinning) is greater than the opportunity to create value.

A Silvicultural Guide for Spruce-Fir in the Northeast. USDA- USFS-NA-FES. Frank and Bjorkbom. Technical Report NE-6. 1973. **#8**
Silvicultural Guide for Northern Hardwood Types in the Northeast. USDA-USFS-NA-FES. Leak, Salomon, DeBald. Research Paper NE-603. 1987. **G**

III. STAND DESCRIPTION & TREATMENT PLAN

EXISTING STAND DESCRIPTION

Stand Number: 2 **Acres:** 48.38

Stand Cover Type: Northern Hardwood

UGS HW	Beech	Red Maple	Sugar Maple	Black Cherry	Poplar	Yellow Birch	Spruce	Balsam Fir	Hemlock	White Birch
28%	21%	13%	13%	7%	3%	3%	3%	3%	3%	2%

UGS = unacceptable growing stock HW=hardwood SW=softwood

Age Class Structure: Even-age

Site Class: II **Site Index or Soil Series:** Vershire Glover complex

Significant Wildlife Habitat or Special Places and Sensitive Sites Description *(if applicable)*: black bear evidence in several healthy beech including "nest" and claw marks

Stand History: Harvested in 2011-2012. There are several locations within this stand that saw less activity during the harvest. These locations include Hemlock and large diameter hardwoods and are diverse in age, species, and structure contributing to the overall diversity of the stand.

Stand Health *(include insects, disease, invasive plants, etc. & levels)*: nothing of significance

Sampling Method: Point

Sampling Date: 12/16/23 **Number Points/Plots:** 12 **BAF/Plot Size:** 10

Quadratic Mean Stand Diameter (inches): 6.6

Trees/Acre: 213

Basal Area (ft^2/acre):

Total: 51 **Acceptable Growing Stock:** 37 **Unacceptable Growing Stock:** 14

Regeneration Data: 84% established; 8% scattered; 8% absent. Larger openings have less beach. Early stages of stem exclusion are occurring on some of the better sites within this stand in terms of soils and conditions.

DESIRED FUTURE STAND CONDITION

Long Range Silvicultural Objectives: Uneven-age Management

PLANNED TREATMENTS

Treatment Year: NA

Treatment: No Activity due to low stand density

Silvicultural Guide for Northern Hardwood Types in the Northeast. USDA-USFS-NA-FES. Leak, Salomon, DeBald. Research Paper NE-603. 1987. **G**

III. STAND DESCRIPTION & TREATMENT PLAN

EXISTING STAND DESCRIPTION

Stand Number: 3 **Acres:** 117.09

Stand Cover Type: Mixed

UGS HW	UGS SW	Red Maple	Hemlock	Balsam Fir	Poplar	Yellow Birch	White Birch	White Ash	Black Cherry	Spruce	Sugar Maple	Beech
14%	6%	26%	14%	9%	8%	8%	6%	3%	3%	2%	1%	1%

UGS = unacceptable growing stock HW=hardwood SW=softwood

***Red oak was noted but did not end up in tally*

Age Class Structure: Even-age

Site Class: II-III **Site Index or Soil Series:** Vershire Glover complex

Significant Wildlife Habitat or Special Places and Sensitive Sites Description *(if applicable)*:
Evidence of hare and white tailed deer.
Three state mapped vernal pools; indicated on map.
Several Wetland Protection Zones per Vermont Land Trust. See Appendix.

Stand History: This stand last saw activity likely sometime in the 1980s. Evidence of this is beech and red maple stump sprouting. It's a developing stand with stem exclusion occurring on the better sites, but less so on poorer sites.

Stand Health *(include insects, disease, invasive plants, etc. & levels)*: nothing of significance

Sampling Method: Point

Sampling Date: 12/17/23 **Number Points/Plots:** 17 **BAF/Plot Size:** 10

Quadratic Mean Stand Diameter (inches): 6.4

Trees/Acre: 410

Basal Area (ft^2/acre):

Total: 91 **Acceptable Growing Stock:** 73 **Unacceptable Growing Stock:** 18

Regeneration Data: 59% established; 18% scattered; 23% absent.
Heavy deer browse on skid trails, less-so off trails

DESIRED FUTURE STAND CONDITION

Long Range Silvicultural Objectives: Uneven-age Management

PLANNED TREATMENTS

Treatment Year: NA

Treatment: No Activity due to low stand density

TSI is suggested by NE-6 prescription #8 but it is too early; the opportunity to create harm (such as epicormic branching due to overzealous thinning) is greater than the opportunity to create value.

A Silvicultural Guide for Spruce-Fir in the Northeast. USDA- USFS-NA-FES. Frank and Bjorkbom. Technical Report NE-6. 1973. **#8**
Silvicultural Guide for Northern Hardwood Types in the Northeast. USDA-USFS-NA-FES. Leak, Salomon, DeBald. Research Paper NE-603. 1987. **G**

III. STAND DESCRIPTION & TREATMENT PLAN

EXISTING STAND DESCRIPTION

Stand Number: 4 **Acres:** 14.42

Stand Cover Type: Pioneer species

Age Class Structure: Even-age

Site Class: II **Site Index or Soil Series:** Vershire-Glover complex

Significant Wildlife Habitat or Special Places and Sensitive Sites Description *(if applicable)*: Heavy deer browse along main skid trail; majority of the remaining stems are above browse height. Hare browse, tracks and scat prevalent.
One state mapped vernal pool; indicated on map.

Stand History: This stand was liquidated by a timber trespass in winter 2017/2018. The regeneration is good in terms of quality, density, and limited browse damage.

Stand Health *(include insects, disease, invasive plants, etc. & levels)*: nothing of significance

Sampling Method: Point

Sampling Date: 12/17/23 **Number Points/Plots:** 5 **BAF/Plot Size:** 10

Quadratic Mean Stand Diameter (inches): 0

Trees/Acre: 0

Basal Area (ft^2/acre):

Total: 0 **Acceptable Growing Stock:** 0 **Unacceptable Growing Stock:** 0

Regeneration Data: 100% established primarily in the 1"DBH size class. Browse limited to skid trails.

DESIRED FUTURE STAND CONDITION

Long Range Silvicultural Objectives: Uneven-age Management

PLANNED TREATMENTS

Treatment Year: NA

Treatment: No Activity due to low stand density

III. STAND DESCRIPTION & TREATMENT PLAN

EXISTING STAND DESCRIPTION

Stand Number: 5 **Acres:** 5.23

Stand Cover Type: Beech, Birch, Maple

UGS HW	Sugar Maple	White Ash	Beech	Red Maple	Black Cherry	Yellow Birch
19%	38%	16%	13%	9%	3%	3%

UGS = unacceptable growing stock HW=hardwood SW=softwood

Age Class Structure: Even-age

Site Class: II **Site Index or Soil Series:** Vershire-Glover complex

Significant Wildlife Habitat or Special Places and Sensitive Sites Description *(if applicable)*: nothing of significance

Stand History: No evidence of past harvesting.

Stand Health *(include insects, disease, invasive plants, etc. & levels)*: nothing of significance

Sampling Method: Point

Sampling Date: 12/17/23 **Number Points/Plots:** 3 **BAF/Plot Size:** 10

Quadratic Mean Stand Diameter (inches): 9.9

Trees/Acre: 199

Basal Area (ft^2/acre):

Total: 107 **Acceptable Growing Stock:** 87 **Unacceptable Growing Stock:** 20

Regeneration Data: 0% established; 67% scattered; 33% absent

DESIRED FUTURE STAND CONDITION

Long Range Silvicultural Objectives: Uneven-age Management

PLANNED TREATMENTS

Treatment Year: 2032
Due to the small size of this stand, the scheduling of this treatment is dependent upon other activity occurring in adjacent stands.

Treatment: Single Tree and Group Selection Harvest

Silvicultural Guide for Northern Hardwood Types in the Northeast. USDA-USFS-NA-FES. Leak, Salomon, DeBald. Research Paper NE-603. 1987. **D**

Residual Basal Area: 80 sq. ft.

Species favored for retention: Yellow Birch, Sugar Maple

Species favored for regeneration: Yellow Birch

Diameter Distribution

Diameter Range (2-inch D. classes)	Current Total Basal Area (ft^2/acre)	Current Acceptable Basal Area (ft^2/acre)	Target Total Residual Basal Area (ft^2/acre)
6-10 inch	60	53	38
12-14 inch	40	30	38
16 inch plus	6	3	4

Treatment: Group Selection Harvest

Species favored for retention: Yellow Birch, Sugar Maple

Species favored for regeneration: Yellow Birch

Regeneration Group Sizes: 0.5 acre **Percent of stand in regeneration groups:** 15%

Residual Basal Area outside the groups: 70-80 sq. ft.

Treatment and specifications for areas outside the regeneration groups: Single tree selection to remove poor form, UGS, and other compromised stems.

Management Schedule

Management standards allow for carrying out prescribed activities within three years of the treatment year.

Treatment Year	Stand #	Management Activity	Silvicultural Guide or Tech. Reference, Prescription # or Letter, if appropriate
NA	1	No Activity	*A Silvicultural Guide for Spruce-Fir in the Northeast.* USDA- USFS-NA-FES. Frank and Bjorkbom. Technical Report NE-6. 1973. **#8** *Silvicultural Guide for Northern Hardwood Types in the Northeast.* USDA-USFS-NA-FES. Leak, Salomon, DeBald. Research Paper NE-603. 1987. **G**
NA	2	No Activity	*Silvicultural Guide for Northern Hardwood Types in the Northeast.* USDA-USFS-NA-FES. Leak, Salomon, DeBald. Research Paper NE-603. 1987. **G**
NA	3	No Activity	*A Silvicultural Guide for Spruce-Fir in the Northeast.* USDA- USFS-NA-FES. Frank and Bjorkbom. Technical Report NE-6. 1973. **#8** *Silvicultural Guide for Northern Hardwood Types in the Northeast.* USDA-USFS-NA-FES. Leak, Salomon, DeBald. Research Paper NE-603. 1987. **G**
NA	4	No Activity	Prescription inappropriate at this time. MSD <4"
2032	5	Single Tree and Group Selection	*Silvicultural Guide for Northern Hardwood Types in the Northeast.* USDA-USFS-NA-FES. Leak, Salomon, DeBald. Research Paper NE-603. 1987. **D**
2034		Update Management Plan for UVA	

APPENDIX

Vermont Land Trust Protection Zones for Schlueter Prescott Parcel as taken from the conservation easement.

Wetland Protection Zone

The Protected Property includes certain lands containing and buffering wetlands hereby made subject to special protections to protect the water quality and the ecological processes associated with such wetlands. Such wetlands are herein designated as the "Wetland Protection Zone" or "WPZ". The WPZ is more particularly described as four areas including Hemlock-Balsam Fir Black-Ash Seepage Swamps and a Cattail Marsh, and is generally depicted as "WPZ" on the Schlueter-Prescott Conservation Plan. The boundaries of the WPZ may be changed from time to time by mutual agreement of Grantor and Grantee/s, as established by and depicted on a new Conservation Plan signed by Grantor and Grantee/s and maintained on file with Grantee VLT.
Within the WPZ, the goals, prescriptions, and restrictions of this Section are in addition to the provisions of Sections II, III and VI of this Grant, and where inconsistent, the provisions of this Section VII shall control.

Within the WPZ the following shall apply:

1. Protection or restoration of the ecological functions of the wetland natural communities, as well as the natural communities that naturally develop in the future in the WPZ, and the ecological processes that sustain them, shall be Grantor's and Grantee's highest priority.
2. All management activities, including without limitation forest management and ecological management, shall focus on the goals of a) maintaining or restoring soil integrity, natural hydrology, and water quality, and b) maintaining the natural structure and species composition of the natural communities present or communities that may develop naturally over time, informed by the best current ecological science.
3. There shall be no agricultural activities (including without limitation the grazing or pasturing of animals), except as may be approved by Grantee in its sole discretion.
4. All forest management activities shall be conducted pursuant to a forest management plan that is consistent with the Purposes of this Grant and this Section V. Without limiting the foregoing, the installation of new roads and trails shall require Grantee's prior written approval.

In the context of acting under this Section V, Grantor and Grantee may confer about what constitutes the best available ecological science; provided that, Grantee's interpretation thereof shall control.

Vernal Pool Ecological Protection Zone

The Vernal Pool Ecological Protection Zone consists of four (4) vernal pools of statewide significance, and the area around them, including additional vernal pool habitat, which is described below and generally depicted as "EPZ Primary Zone" and "EPZ Secondary Zone" on the Schlueter-Prescott Conservation Plan (together hereinafter referred to as "the EPZ"). The purpose and goal of the EPZ is to provide and maintain high quality amphibian habitat, including critical breeding habitat ("the Goals"), by promoting and maintaining high levels of shade and coarse woody debris. The Grantee, in its sole discretion, may release from the provisions of this Section V all or a portion of the EPZ if the Grantee determines that it ceases to function in a way that meets the Goals, or if the Grantee determines that new scientific knowledge indicates that the limitations and restrictions of this Section are no longer necessary to meet the Goals.

The EPZ Primary Zone shall be subject to the following limitations and restrictions which shall supersede the provisions of Sections II, III and VI of this Grant to the extent these limitations and restrictions are inconsistent with those sections:

EPZ Primary Zone: Each vernal pool and the area within its surrounding 100-foot radius as measured from each pool's edges is the Primary Zone of the EPZ. There shall be no agricultural activity within the Primary Zone other than the collection of maple sap for maple sugaring operations which may be approved or conditioned by Grantee in its sole discretion. No new structures, land disturbance or improvements, with the exception of pedestrian trails as provided for in Section III(5) above, shall be permitted within the Primary Zone. Within the Primary Zone there shall be no removal of standing timber or downed wood or disturbance to the pool's hydrology. The only forest management activities which may take place within the Primary Zone, after first receiving the written approval of the Grantee, which may be granted, conditioned or denied in Grantee's sole discretion, shall be the control of exotic species and activities that enhance amphibian habitat. Any existing structures, roads and log landings may remain but only in their current locations and shall not be altered, expanded or improved beyond their current condition, but relocation may be permitted with the prior written approval of Grantee, which approval may be granted, conditioned or denied in Grantee's sole discretion. New roads for timber harvest may be approved within the Primary Zone by the Grantee if in its sole discretion it determines that there is no other location that can practically meet the same purpose.

In the event a total prohibition against harvesting and limitations upon forest management activities within the Primary Zone affects the eligibility of the Primary Zone for enrollment in the State of Vermont's Use Value Appraisal program, or similar successor program, then those foregoing restrictions which affect such eligibility shall not apply and, instead, only such minimal harvesting and other forest management activities as are required to maintain such eligibility shall be permitted within the Primary Zone.

The Secondary Zone of the EPZ is the forested area lying within an additional 500-foot zone outward from each Primary Zone, as depicted on the Schlueter-Prescott Plan. Within the Secondary Zone firewood may be harvested as permitted under Section III(2), above. Other timber harvesting is permitted but amphibian habitat needs, such as coarse woody debris and shade, shall be addressed in the preparation of forest management plans which shall explicitly state what prescriptions have been imposed to protect and enhance amphibian habitat.

Vermont Land Trust

Schlueter-Prescott Property
Town of St. Johnsbury
Caledonia Co., VT

Decemeber 2018

VLT Project #131639

The Schlueter-Prescott Property Conservation Plan is based on the following State of Vermont Base Map 1:5000 orthophoto(s):
East St. Johnsbury, #196212, 2014;
Fairbanks Mountain, #192212, 2014
Kirby - St. Johnsbury, #196216, 2014;
Mt. Pisgah, #192216, 2014.

1:5,000 1 inch = 416.7 feet

Feet 250 125 0 250 500 750

Meters 50 25 0 50 100 150 200

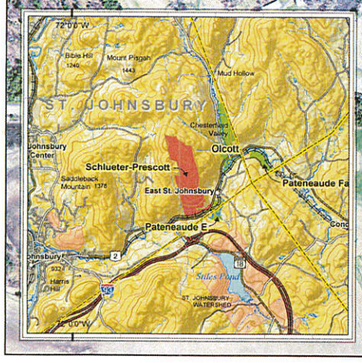
Reference(s):

1) "Survey Plat for Wayne C & Edith L. Patenaude, U.S. Route #2, St. Johnsbury, Vermont" by William A. Willis, dated December 2000.
2) "Tomlinson Family Revocable Living Trust, 1792 Spaulding Road (T.H. #37), St. Johnsbury, VT" by Shane B. Clark, dated 08/06/18.
3) "Subdivision Plat for William F. & Susan M. Callahan, Spaulding Rd., St. Johnsbury, VT" by William A. Willis, dated May 1993.

543000 544000 217000 216000 215000

EPZ Secondary Zone
WPZ
WPZ
EPZ Primary Zones
WPZ
WPZ
WPZ
Excluded ± 6.3 acres
ROW
U.S. Route 2
Riparian Buffer
Maine Central Railroad
Moose River

Protected Property
Excluded Land
Riparian Buffer
Wetland Protection Zone (WPZ)
EPZ Primary Zone
EPZ Secondary Zone
ROW



ACREAGE INFORMATION[1]

Open/Ag. Land	41.5 acres
Woods	336.7 acres
Wooded Wetland	5.6 acres
Wetland	2.2 acres
Total Protected Property	**± 386 acres**
Excluded Land	± 6.3 acres

1. All acreage is approximate, and exclusive of public road rights of way.

This map is not a survey or subdivision plat, and should not be used or construed for such purposes. It was prepared without the benefit of field measurements or extensive title research. It is intended solely to assist the owner(s) of the conserved land and the holder(s) of the conservation easement in the administration and interpretation of the conservation easement by clearly depicting the presumed boundaries of the protected property, calculating the approximate acreages, and showing the approximate locations of any excluded lands, farmstead or homestead complex, farm labor housing complex, or special treatment areas.

THIS MAP IS NOT A SURVEY

Reviewed and Accepted by:

12/17/2018
Sally Schlueter, Trustee of the Schlueter-Prescott Family Revocable Trust — Date

Richard Prescott, Trustee of the Schlueter-Prescott Family Revocable Trust — Dat

12/21/1
Duly Authorized Agent of Vermont Land Trust, Inc. — Da