

Sheet No. **1 of 2**



STAND A	
Immature Mixed Hardwood and Conifer	
1 Dominant species	Yellow Poplar, Red Oak, White Oak, Sweetgum, Beech
2 Codominant species	Va. Pine, Hickory, Blackgum, Red Maple, Dogwood
3 Basal area in a 1 per acre	129
4 Number of trees per acre	238
5 Average Diameter at Breast Height (DBH)	15.0 "
6 Size class of dominant species	12-20 Inches
7 Percent canopy coverage	69%
8 Average number of tree species per sample plot	18%
9 Understory species	Holly, Beech, Carpinus, Red Maple, Blackgum, Hickory, Red Oak, Dogwood
10 Percent of understory coverage - 3 to 20' tall	50%
11 Number of woody plant species - 3 to 20' tall	12
12 Herbaceous species - 0 to 3' tall	Holly, Beech, Carpinus, Highbush Blueberry, Greenbriar, Red Maple, Red Oak, White Oak, Knotweed, Mapleleaf Viburnum, Hickory, Va. Creeper
13 Percent herbaceous plant coverage - 0 to 3' tall	18%
14 List of major invasive plant species and percent of coverage	Overstory 0% None Understory 0% None
15 Number of standing dead trees > 6" dbh or greater	Herbaceous 0% Honey-suckle
16 Number of Free Species > 6" dbh	10
17 Comments	Portions of stand have extensive Va. Pine blowdown and other portions have been used as forested pasture
18 Forest Structure Rating Score	Excellent

#### MANAGEMENT OBJECTIVES

The primary management objective of the property owner is to maintain a healthy forest while receiving periodic income.

The timber rights for this stand have been sold and the timber will be harvested within the next year. The harvest will result in some areas having a residual stocking of 20 to 30 square feet of basal area per acre while other portions of the stand will have residual stocking levels of 0 to 10 square feet of basal area per acre. Because Yellow Poplar, Sweetgum, Red Oak, White Oak and Beech are the dominant species there is significant seed source in the litter layer and once exposed to sunlight and disturbances associated with the logging the stand will regenerate well. In addition, those same species will spread from the stumps resulting in denser regeneration throughout those areas harvested hereby. The areas with the higher residual stocking levels will remain adequately stocked and although regeneration will occur it will only enhance the already fully stocked portions of the stand.

The biggest concern about the post harvest regeneration is in the portions of the stand where the cattle are allowed to graze. If not restricted from these areas the cattle could damage the regeneration that does occur. Therefore, it is recommended that the cattle not be allowed on graze in those portions of the stand where regeneration will be necessary to restock the stand. This exclusion shall be done either through the elimination of all cattle on this site or by the appropriate fencing along the perimeter of the forest areas.

#### MANAGEMENT RECOMMENDATIONS

2008	Stand A	Harvest by Selection and Group Selection Methods removing all conifers and removing hardwoods in excess of 10" diameter
2008	Stand A	Exclude cattle from all forest areas
2010	Stand A	Evaluate natural regeneration to determine if additional timber stand improvement work may be required
2020	Stand A	Re-examine and update management recommendations as necessary
Annually	All	Maintain property boundaries
Annually	All	Stabilize and maintain existing trails to allow for access to the forest areas on the property
Annually	All	Examine for insect and disease problems

**Forest Stand Delineation includes TM 147, Parcel 82**

**Floodplain limits based on agreement per meeting with Environmental Planning Section staff.**

#### General Notes:

- The topographic information shown on this plan is from M-NCPPC 2001 topography.
- There is no floodplain on this site per discussions with DPW&T and EPS.
- The source of the property boundaries on this plan are L3577 F085

I have reviewed this plan and understand that the plan establishes Woodland Conservation requirements for my property. Those requirements will allow for the creation of a Woodland Conservation Mitigation Bank and subsequent Woodland Conservation Easements

Furthermore, cattle will be excluded from all forest areas to ensure the viability of the existing forest areas and to allow for adequate regeneration of those forest areas following the proposed timber harvest.

Pyles Corporation Date

STAND	AREA (acres)	RETENTION POTENTIAL <sup>1</sup>	FOREST STRUCTURE VALUE
A	30.23	Low	Excellent
Open Land	15.41		
Total	45.64		

<sup>1</sup> The "Retention Potential" is based on the location of the stand with respect to streams while the "Forest Structure Value" is based on the existing conditions of the vegetation and potential for use of the site by wildlife as habitat.

#### SITE INFORMATION

Type	Area (acres)
Gross Tract Area	45.64
100-year Floodplain	0.00
Forest on Gross Tract	30.23
Forest in 100-year Floodplain	0.00

#### Easement Description

Starting at the northwest corner of the property at a stone near a Cedar tree then running with the property boundary.

S85°30'40"E - 873.52' to a point of beginning thence running the following courses and distances with the property boundary:

1	S85°50'40"E	360.93'
2	S32°29'10"E	248.53'
3	S25°28'10"E	100.39'
4	S15°50'50"E	100.41'
5	S6°53'20"E	120.50'
6	S27°57'00"W	36.67'
7	S46°21'10"E	548.29'
8	S44°33'00"W	244.37'
9	S52°42'50"W	566.36'
10	S55°48'30"W	271.97'
11	S59°41'20"W	250.79'
12	S46°58'30"W	192.78'
13	S72°13'50"W	100.73'
14	S52°13'50"W	7.35'
15	S69°55'56"W	38.11'
16	N44°12'31"W	69.10'
17	N28°59'26"W	245.51'
18	N21°00'04"W	285.32'
19	N76°24'32"E	82.93'
20	S85°01'27"E	83.47'
21	N80°02'25"E	64.41'
22	N55°28'05"E	50.49'
23	N25°22'32"E	25.83'
24	N09°56'18"W	56.05'
25	N26°11'10"W	72.98'
26	N04°57'24"W	257.23'
27	S87°06'35"E	28.80'
28	S69°11'36"E	40.97'
29	N44°04'28"E	25.59'
30	N66°51'25"E	40.82'
31	S83°03'34"E	40.84'
32	S64°05'06"E	24.76'
33	S27°05'01"E	34.28'
34	S21°52'53"E	40.18'
35	S63°49'17"W	15.60'
36	S88°34'35"W	30.61'
37	S01°12'19"W	21.31'
38	S41°10'57"E	43.24'
39	S80°27'56"E	35.18'

thence leaving said property boundary and running the following courses and distances

40	N68°24'56"E	52.05'
41	S64°54'17"E	37.02'
42	N87°51'20"E	25.02'
43	N21°24'28"E	53.23'
44	N06°07'12"W	49.97'
45	N11°31'11"E	39.52'
46	S68°45'33"E	23.28'
47	S29°07'49"E	128.95'
48	N71°13'12"E	116.32'
49	N79°23'25"E	79.11'
50	N39°40'33"E	36.80'
51	N20°13'48"W	99.83'
52	N15°29'59"W	137.50'
53	N08°24'43"W	83.75'
54	N22°48'33"W	172.08'
55	N76°53'21"W	18.65'
56	S48°16'11"W	154.53'
57	S55°37'16"W	35.73'
58	N67°04'12"W	57.91'
59	S09°56'26"W	40.84'
60	S07°50'22"E	55.23'
61	S75°30'48"W	54.48'
62	N44°22'18"W	104.11'
63	N62°30'28"W	88.36'
64	S84°40'33"W	52.05'
65	N45°55'52"W	19.20'
66	N50°30'58"E	23.48'
67	N72°51'15"E	30.49'
68	S89°25'06"E	20.23'
69	N47°02'26"E	72.74'
70	S75°49'24"E	104.08'
71	N35°10'28"E	118.88'
72	N81°18'54"E	17.75'
73	S35°32'29"E	109.63'
74	N48°21'10"E	123.61'
75	N35°35'25"E	68.88'
76	N72°38'43"E	21.64'
77	S04°53'36"E	92.31'
78	S19°56'05"E	243.49'
79	N73°38'05"E	86.97'
80	N44°04'28"E	110.36'
81	N29°25'29"E	46.88'
82	N16°53'39"W	179.97'
83	N29°35'55"W	135.90'
84	S75°02'18"W	55.96'
85	N88°11'57"W	78.33'
86	N34°28'06"W	86.22'
87	N15°47'54"W	83.99'
88	N32°52'18"W	141.85'

to point of beginning and containing 28.54 acres more or less

#### Easement #2 – Natural Regeneration Area

Beginning at northern end of line 26

from Easement described in L29773

F337 thence follow lines 27 to 65 of that

easement as follows:

27	S87°06'35"E	28.80'
28	S69°11'36"E	40.97'
29	N44°04'28"E	25.59'
30	N69°53'25"E	40.82'
31	S89°03'34"E	40.84'
32	S64°05'06"E	24.76'
33	S37°05'01"E	34.28'
34	S21°52'53"E	40.18'
35	S63°49'17"W	15.60'
36	S88°34'34"W	30.61'
37	S01°13'19"W	21.31'
38	S41°10'57"E	43.24'
39	S80°27'56"E	35.18'
40	N68°24'56"E	52.05'
41	S64°54'47"E	37.02'
42	N87°51'20"E	25.02'
43	N21°24'28"E	53.23'
44	N06°07'12"W	49.97'
45	N11°31'11"E	39.52'
46	S68°45'33"E	23.28'
47	S29°07'49"E	128.95'
48	N71°13'12"E	116.32'
49	N79°23'25"E	79.11'
50	39°40'33"E	36.80'
51	N20°13'48"W	99.83'
52	N15°29'59"W	137.50'
53	N08°24'43"W	83.75'
54	N22°48'33"W	172.08'
55	N76°53'21"W	18.65'
56	S48°16'11"W	1554.35'
57	S55°37'16"W	35.73'
58	N67°04'12"W	57.91'
59	S08°56'26"W	40.84'
60	S07°50'42"E	55.23'
61	S75°30'48"W	54.48'
62	N44°22'18"W	104.11'
63	N62°30'28"W	88.36'
64	S84°40'33"W	52.05'
65	N45°55'52"W	19.20' to a point,

thence leaving said line

90 N6800°05"W 22.49' to a point

on the property boundary line,

Thence with said line

91	S57°24'05"W	46.52'
92	S04°57'11"E	343.37' to the point of beginning, containing 5.70 acres.

SOIL	SOIL SERIES	K-FACTOR	HYDRIC SOIL GROUP
AuB2	Aura gravelly loam, 2-6% slopes, moderately eroded	0.32	B
AuC3	Aura gravelly loam, 6-12% slopes, severely eroded	0.32	B
BiB2	Beltsville silt loam, 2-5% slopes, moderately eroded	0.49	C
Bo	Bibb silt loam	0.43	D
CaB2	Chillum silt loam, 0-6% slopes, moderately eroded	0.49	B
CaC2	Chillum silt loam, 6-12% slopes, moderately eroded	0.49	B
CaC3	Chillum silt loam, 6-12% slopes, severely eroded	0.49	B
SaE	Sandy land, steep	0.20	A
SgB2	Sassafras gravelly sandy loam, 2-5% slopes, moderately eroded	0.24	B
SgC2	Sassafras gravelly sandy loam, 5-10% slopes, moderately eroded	0.24	B
SgD3	Sassafras gravelly sandy loam, 10-15% slopes, severely eroded	0.24	B
SdE	Sassafras gravelly sandy loam, 15-30% slopes	0.24	B
ShB2	Sassafras sandy loam, 2-5% slopes, moderately eroded	0.24	B
ShC3	Sassafras sandy loam, 5-10% slopes, moderately eroded	0.24	B
WaC3	Westphalia fine sandy loam, 6-12% slopes, severely eroded	0.43	B
WeC3	Westphalia – Evesboro complex, 6-12% slopes, severely eroded	0.43 / 0.10	B/A
WeD3	Westphalia – Evesboro complex, 12-20% slopes, severely eroded	0.43 / 0.10	B/A
WoB2	Woodstown sandy loam, 2-5% slopes, moderately eroded	0.24	C

The table below is a summary of the data collected for the 5.70 acre Natural Regeneration Area (NRA) reflected on this revised TCP2. It should be noted the the regeneration is present at acceptable levels.

#### Rick E. Pyles Property WC Bank Afforestation Status Report (January 1, 2014)

Block	Lot #	Point #	Sweetgum		Yellow Poplar		Loblolly Pine		Sycamore		Red Oak		Red Cedar		Other Native		Invasive		Total Seedling Equiv./100th ac	Invasive Species Equivalents	Native Species Equivalents	Total Trees per acre	Afforestation Area						
			# Seedlings	# Trees ≥ 1.0" Caliper	Caliper Inches	# Seedlings	# Trees ≥ 1.0" Caliper	Caliper Inches	# Seedlings	# Trees ≥ 1.0" Caliper	Caliper Inches	# Seedlings	# Trees ≥ 1.0" Caliper	Caliper Inches	# Seedlings	# Trees ≥ 1.0" Caliper	Caliper Inches	# Seedlings						# Trees ≥ 1.0" Caliper	Caliper Inches				
	1	39				39	12		12	4		4	5		5		2		0	62	0	6200	6200	1					
	2	65			65				0	2		2			0	1		1		0	68	0	6800	6800	1				
	3	9			9	2			2	2		2			0		0		0	13	0	1300	1300	1					
	4				0				0	2		2			0		0		0	2	0	200	200	1					
	5	13	2	2	17				0	2		2			0		0		0	19	0	1900	1900	1					
	6	3			3				0	1		1			0		0		0	4	0	400	400	1					
	7	11	1	1	13	1			1	1		1	1	1	3		0		0	19	0	1900	1900	1					
	8	5			5	2			2	4		4			0		0		0	11	0	1100	1100	1					
	9	14	1	1	16	2			2	2		2	3		3		0		0	23	0	2300	2300	1					
	10	12			12				0	6		6			0		0		0	18	0	1800	1800	1					
	Total	171	4	4	179	19	0	0	19	20	0	0	20	15	0	0	15	2	1	1	4	2	0	0	239	0	23900	23900	
Average Seedling Equivalents =																				0	2390	2390							

<sup>1</sup>Other Native Species includes:

<sup>2</sup>All sample points were 1/100th acre circular plots with a 11.3-foot radius. All trees within the sample points were counted by species and size class (Seedling or caliper in inches). Each one (1) inch of caliper is equivalent to two (2) seedlings. Required planting density per TCPII-018-08 was not addressed but was 1,000 seedlings or equivalent per acre with a survival rate of 75 percent or 750 trees at the time of the TCPII approval. All sample point locations have been mapped and areas with acceptable planting density in excess of 750 seedlings per acre.

I/We, Rick E. Pyles hereby acknowledge

that we are aware of this Type 2 Tree conservation Plan (TCP2) and that we understand the requirements as set forth in this TCP2.

Rick E. Pyles 2/28/2014 Date

#### QUALIFIED PROFESSIONAL CERTIFICATION

This plan complies with the current requirements of Subtitle 25 and the Woodland and Wildlife Conservation Technical Manual.

Signed: John P. Markovich Date: 2/28/14  
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