

# Dickerson Power Plant

Montgomery County, Maryland

WSSI #MD2258.01

## Natural Resources Inventory/Forest Stand Delineation

September 19, 2023

(Revised December 1, 2023)

*Prepared for:*

Soltesz

2 Research Place, Suite 100

Rockville, Maryland 20850

*Prepared by:*



1131 Benfield Boulevard, Suite L

Millersville, Maryland 21108

Tel: 410-672-5990 Email: [contactus@wetlands.com](mailto:contactus@wetlands.com)

[www.wetlands.com](http://www.wetlands.com)

# Natural Resources Inventory/Forest Stand Delineation

## Dickerson Power Plant (291.72-acre site) WSSI #MD2258.01

### 1. Introduction

This report is prepared in accordance with the requirements outlined in the Maryland Department of Natural Resources' *State Forest Conservation Technical Manual*<sup>1</sup> as well as the Montgomery County *Trees Approved Technical Manual*<sup>2</sup>. According to the *State Forest Conservation Manual*, the purpose of a Natural Resources Inventory/Forest Stand Delineation (NRI/FSD) is to determine the most suitable and practical areas for forest conservation during the preliminary design and review stages of development. The preparers of this report, Michael J. Klebasko and Haley Kelly, are qualified professionals under COMAR 08.19.06.01, and the field study was conducted on August 23, 25, 29, 30, and 31, 2023 and on September 1, 6, and 8, 2023.

### 2. Site Location and Conditions

The 291.72-acre site is located at 21200 Martinsburg Road in Dickerson, Montgomery County, Maryland (Exhibit 1). The study area currently contains the abandoned Dickerson Power Plant and is comprised of mixed-hardwood forest, irregularly maintained fields, railroad tracks, impervious surfaces, and associated access roads. Approximately 94.90 acres of this site qualify as forest under the State Forest Conservation Act.

### 3. Soils

The U.S. Department of Agriculture - Natural Resources Conservation Service (NRCS) has produced soil surveys for every county within the State of Maryland. The soil surveys map the locations of the various soil types throughout each county and provide a description of each soil type. The updated soil survey for Montgomery County (Exhibit 2a) that can be accessed on-line at <http://websoilsurvey.nrcs.usda.gov> revealed that sixteen (16) soil types are mapped within the study area (Exhibit 2b). Soils that are listed in Appendix C of the *Environmental Guidelines – Guidelines for Environmental Management of Development in Montgomery County* (2021) are considered highly erodible. One (1) highly erodible soil, Penn silt loam (21D), is mapped on this site.

### 4. Steep Slopes

According to the *Trees Approved Technical Manual* of Montgomery County, steep slopes are defined as 25% or greater slopes, and slopes between 15% and 25% that are associated with erodible soils. Areas with 25% and greater slopes and areas between 15% and 25% that occur within the Penn silt loam mapped soil type are demarcated on the NRI/FSD Plan (Attachment 1).

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<sup>1</sup> Maryland Department of Natural Resources. 1997. *State Forest Conservation Technical Manual-3<sup>rd</sup> Edition*. Baltimore, Maryland.

<sup>2</sup> Maryland National Capital Park & Planning Commission. 1994. *Trees Approved Technical Manual*. Montgomery County, Maryland

## 5. Rare, Threatened & Endangered Species

In a letter dated November 29, 2023, the Wildlife and Heritage Service has determined that this project site contains a significant portion of the catchment basin to the Three Spring Hollow site. Two state-listed species that were listed as potentially occurring within the project site include Vandel's Cave Isopod (*Caecidotea vandeli*) and the Pizzini's Cave Amphipod (*Stygobromus pizzinii*). A copy of the letter can be found in (Exhibit 3) of this report. While no rare, threatened, or endangered species were observed while performing the forest stand delineation field work, MDNR Sensitive Species Project Review Areas are designated within the study area (Exhibit 4). As shown on Exhibit 4, the majority of the site is mapped as containing State-Listed Species while the southwestern corner is mapped as a Species/Natural Community of Concern with No Official Status.

## 6. Wetlands, Streams & 100-Year Floodplain

A formal wetland delineation in accordance with the *1987 Corps of Engineers Wetland Delineation Manual*, and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region* was completed by Jennifer M. Favela, P.W.S.<sup>3</sup>, Michael J. Klebasko, P.W.S.<sup>4</sup>, Marius Flemmer, W.P.I.T.<sup>5</sup>, Dan Lekites, and Tom Ballinger on August 23, 2023. The study revealed that jurisdictional waters of the U.S. (including wetlands) exist on the subject property. The results of the delineation are detailed in the Wetland Delineation Report, dated September 15, 2023, and prepared by Wetland Studies and Solutions, Inc.

The entire site drains either directly to the Potomac River or to the Little Monocacy River, of which both streams are designated as Use I-P waterways according to COMAR 26.08.02.08-1. FEMA has mapped a sliver of 100-year floodplain along the southwestern property and a small area in the northeast corner associated with the Little Monocacy River according to Digital Flood Insurance Rate Map Panel #24031C0130D (09/29/2006) (Exhibit 5).

## 7. Methodology

Forests are defined in the Forest Conservation Act (Nat. Res. Art. 5-1601) as a biological community dominated by trees and other woody plants covering a land area of 10,000 square feet or more, having a minimum density of at least 100 trees per acre with a minimum of 50% of those trees having diameters at least 2 inches at breast height. Forest also includes areas in which the trees have been cut but not cleared of their stumps.

Prior to conducting the field study, a base map was created by overlaying known environmental features (i.e. wetlands, streams, mapped soil types) and existing site conditions (i.e. tree-line, topography, structures) onto the map. The base map was then used to determine possible forest stand boundaries and to establish a sampling strategy for the site. The manual requires a minimum of one 1/10-acre sample plot per 4 acres of forest stand area; a minimum of two plots per forest stand; and a minimum of three plots for the total forested area of the site.

<sup>3</sup> Professional Wetland Scientist #3033, Society of Wetlands Scientists Certification Program, Inc.

<sup>4</sup> Professional Wetland Scientist #777, Society of Wetlands Scientists Certification Program, Inc.

<sup>5</sup> Wetland Professional In Training, Society of Wetlands Scientists Certification Program, Inc.

A Biltmore Stick was used to determine the size of trees generally less than 22-inches in diameter, while a 50-foot retractable D-tape was used to measure the larger trees. A Basal Area 10 Factor prism was used to collect information on tree densities at each sample point. For this study, forty-one (41) data point locations were used to collect the required field data. Their locations are indicated on the NRI/FSD Plan and each data point was marked in the forest with red glo-tape and numbered.

Data collected at each sampling point and noted on the attached Forest Stand Delineation Field Sampling Data Sheets included such information as basal area, percent canopy closure, percent invasive species cover, shrub and herbaceous species, and percent downed woody debris. In addition, any significant trees (trees with diameter-at-breast-height [DBH] between 24 and 30 inches), specimen trees (trees with DBH greater than or equal to 30 inches), or trees with diameters within 75% of a State Champion tree were also tagged and their locations demarcated on the NRI/FSD Plan.

The information collected in the field was then used to calculate a structure value for each forest stand. The structure value places each forest stand in one of three categories: Poor, Good and Priority. This data aids in determining the overall value of each forest stand.

## **8. Stand Descriptions**

The forest stand delineation field study revealed that the existing forest is comprised of twelve (12) separate stands based on age and/or species composition.

### **STAND A**

Stand A (42.60 acres) is a mature, mixed-hardwood forest dominated by tulip poplar (*Liriodendron tulipifera*), American sycamore (*Platanus occidentalis*), northern red oak (*Quercus rubra*), hickory (*Carya sp.*) and slippery elm (*Ulmus rubra*). The understory contains spicebush (*Lindera benzoin*) and American pawpaw (*Asimina triloba*), while the herbaceous layer is generally comprised of wineberry (*Rubus phoenicolasius*), stilt grass (*Microstegium vimineum*), white snakeroot (*Ageratina altissima*), and wavyleaf basketgrass (*Oplismenus undulatifolius*). This stand, which has an average DBH of 14 inches, contains two hundred twenty-eight (228) significant trees and one hundred twenty-nine (129) specimen trees. The Forest Structure Analysis Sheet (Exhibit 6) indicates that this stand has a structure value of 16, which places it in the lower end of the “Priority” rating. Stand A did not exhibit any evidence of disease or insect infestation and contains a moderate percentage of invasive species cover. Due to the presence of significant environmental features (i.e. specimen trees, wetlands, 25-foot wetland buffers), the age of the stand, and the relatively high stand structure value, Stand A should be classified as a Priority 1 Forest Retention Area.

### **STAND B**

Stand B (3.44 acres) is a mature, mixed-hardwood forest dominated by American elm (*Ulmus americana*), silver maple (*Acer saccharinum*), northern red oak, and black walnut (*Juglans nigra*).



The understory contains American elm and American pawpaw, while the herbaceous layer is dominated by wineberry, Japanese honeysuckle (*Lonicera japonica*), wavyleaf basketgrass, American paw paw, box elder (*Acer negundo*), red maple (*Acer rubrum*), and white snakeroot. This stand, which has an average DBH of 17 inches, contains thirteen (13) significant and seven (7) specimen trees. The Forest Structure Analysis Sheet (Exhibit 7) indicates that this stand has a structure value of 12, which places it in the “Good” rating. Stand B did not exhibit any evidence of disease or insect infestation, and it contained a relatively low percentage of invasive species cover. Due to the presence of significant environmental features (i.e. specimen trees, steep slopes), Stand B should be classified as a Priority 1 Forest Retention Area.

### STAND C

Stand C (3.19 acres) is a mid-successional, mixed-hardwood forest dominated by box elder, American sycamore, and American elm. The understory contains box elder, American paw paw, American elm, and northern spicebush, while the herbaceous layer is dominated by invasives such as Japanese stiltgrass, wineberry, and Japanese honeysuckle, as well native species including box elder and black gum (*Nyssa sylvatica*). This stand, which has an average DBH of 12 inches, contains five (5) significant and eight (8) specimen trees. The Forest Structure Analysis Sheet (Exhibit 8) indicates that this stand has a structure value of 15, which places it in the lower end of the “Priority” rating. Stand C did not exhibit any evidence of disease or insect infestation and contained a relatively low percentage of invasive species cover. Due to the presence of significant environmental features (i.e. specimen trees, wetlands, 25-foot wetland buffers), Stand C should be classified as a Priority 1 Forest Retention Area.

### STAND D

Stand D (1.04 acres) is a mid-successional, mixed-hardwood forest that is dominated by red maple. The understory contains American pawpaw, elm (*Ulmus sp.*) and sassafras (*Sassafras albidum*), while the herbaceous layer is comprised of white snakeroot, Japanese stiltgrass, Japanese barberry (*Berberis thunbergia*) and wineberry. This stand, which has an average DBH of 12 inches, contains two (2) significant and one (1) specimen tree. The Forest Structure Analysis Sheet (Exhibit 9) indicates that this stand has a structure value of 12, which places it in the “Good” rating. Stand D did not exhibit any evidence of disease or insect infestation and contained a moderate percentage of invasive species cover. Due to the presence of significant environmental features (i.e. specimen trees, steep slopes, 25-foot wetland buffers), Stand D should be classified as a Priority 1 Forest Retention Area.

### STAND E

Stand E (4.80 acres) is an early-successional, mixed-hardwood forest dominated by black locust (*Robinia pseudoacacia*). The understory contains black locust and eastern red cedar (*Juniperus virginiana*), while the herbaceous layer is comprised of white snakeroot, Japanese stiltgrass, and Virginia creeper (*Parthenocissus quinquefolia*). This stand, which has an average DBH of 8 inches, contains no significant or specimen trees. The Forest Structure Analysis Sheet (Exhibit 10) indicates that this stand has a structure value of 14, which places it in the upper end of the “Good” rating. Stand E did not exhibit any evidence of disease or insect infestation but contained a high

percentage of invasive species cover. Due to the general lack of significant environmental features and the high percentage of invasive species cover, Stand E should be classified as a Priority 3 Forest Retention Area.

### STAND F

Stand F (13.15 acres) is a mature, mixed-hardwood forest dominated by tulip poplar and box elder. The understory contains American paw paw and box elder, while the relatively dense herbaceous layer is dominated by American paw paw, Japanese stiltgrass, white snakeroot, and autumn olive (*Elaeagnus umbellata*). This stand, which has an average DBH of 16 inches, contains thirty-six (36) significant trees and sixteen (16) specimen trees. The Forest Structure Analysis Sheet (Exhibit 11) indicates that this stand has a structure value of 16, which places it in the lower end of the “Priority” rating. Stand F did not exhibit any evidence of disease or insect infestation and contained a very high percentage of invasive species cover. Due to the presence of significant environmental features (i.e. specimen trees), Stand F should be classified as a Priority 1 Forest Retention Area.

### STAND G

Stand G (4.23 acres) is an early-successional, coniferous forest dominated by Virginia pine (*Pinus virginiana*) and eastern red cedar. The understory contains Virginia pine, autumn olive and eastern red cedar, while the herbaceous layer is dominated by Japanese stiltgrass, white snakeroot, and invasive grape (*Vitis sp.*) This stand, which has an average DBH of 8 inches, contains three (3) significant trees and no specimen trees. The Forest Structure Analysis Sheet (Exhibit 12) indicates that this stand has a structure value of 8, which places it in the lower end of the “Good” rating. Stand G did not exhibit any evidence of disease or insect infestation and contained a moderate percentage of invasive species cover. Due to the lack of significant environmental features, Stand G should be classified as a Priority 3 Forest Retention Area.

### STAND H

Stand H (5.81 acres), which is comprised of two substands, is characterized as a mid-successional, mixed-hardwood forest with a canopy comprised of tulip poplar (*Liriodendron tulipifera*) and slippery elm (*Ulmus rubra*). The understory contains autumn olive, slippery elm (*Ulmus rubra*), and box elder, while the herbaceous layer is dominated by Poison ivy (*Toxicodendron radicans*), autumn olive, white snakeroot, and Virginia creeper. This stand, which has an average DBH of 13 inches, contains three (3) significant trees and no specimen trees. The Forest Structure Analysis Sheet (Exhibit 13) indicates that this stand has a structure value of 15, which places it in the lower end of the “Priority” rating. Stand H did not exhibit any evidence of disease or insect infestation and contains a moderate percentage of invasive species cover. Due to the lack of significant environmental features, Stand H should be classified as a Priority 3 Forest Retention Area.

### STAND I

Stand I (0.65 acre) is a mid-successional, mixed-hardwood forest containing eastern red cedar, elm, black cherry, northern red oak, and sassafras. The understory is comprised of American paw

paw and eastern red cedar, while the herbaceous layer contains Japanese stiltgrass and white snakeroot. This stand, which has an average DBH of 11 inches, does not contain any significant or specimen trees. The Forest Structure Analysis Sheet (Exhibit 14) indicates that this stand has a structure value of 15, which places it in the lower end of the “Priority” rating. Stand I did not exhibit any evidence of disease or insect infestation and contains a low percentage of invasive species cover. Due to the lack of significant environmental features, Stand I should be classified as a Priority 3 Forest Retention Area.

### STAND J

Stand J (3.72 acres) is an early successional, bottomland, mixed-hardwood forest dominated by black gum, willow oak (*Quercus phellos*), and red maple. The understory contains autumn olive, while the herbaceous layer contains common reed (*Phragmites australis*) and poison ivy. This stand, which has an average DBH of 10 inches, contains one (1) significant and no specimen trees. The Forest Structure Analysis Sheet (Exhibit 15) indicates that this stand has a structure value of 12, which places it in the upper end of the “Good” rating. Stand J did not exhibit any evidence of disease or insect infestation and contains a moderate percentage of invasive species cover. Due to the lack of significant environmental features, Stand J should be classified as a Priority 3 Forest Retention Area.

### STAND K

Stand K (9.13 acres) is a mid-successional, mixed-hardwood forest dominated by chestnut oak (*Quercus montana*), hickory, post oak (*Quercus stellata*), and white oak. The understory contains hickory, American paw paw, and autumn olive, while the herbaceous layer contains hickory and false nettle (*Boehmeria cylindrica*). This stand, which has an average DBH of 12 inches, contains seventeen (17) significant trees and seven (7) specimen trees. The Forest Structure Analysis Sheet (Exhibit 16) indicates that this stand has a structure value of 15, which places it in the lower end of the “Priority” rating. Stand K did not exhibit any evidence of disease or insect infestation and contains a low percentage of invasive species cover. Due to the presence of significant environmental features (i.e. specimen trees, wetland, 25-foot wetland buffer), Stand K should be classified as a Priority 1 Forest Retention Area.

### STAND L

Stand L (3.14 acres) is a mature, mixed-hardwood forest dominated by hackberry (*Celtis occidentalis*), black walnut, box elder, and white ash (*Fraxinus americana*). The understory contains American paw paw and autumn olive, while the herbaceous layer is dominated by Japanese stiltgrass, autumn olive, garlic mustard, American paw paw, and white snake root. This stand, which has an average DBH of 16 inches, contains eight (8) significant trees and three (3) specimen trees. The Forest Structure Analysis Sheet (Exhibit 17) indicates that this stand has a structure value of 13, which places it in the upper end of the “Good” rating. Stand L did not exhibit any evidence of disease or insect infestation and contained a moderate percentage of invasive species cover. Although there are a few large trees associated with a former home site present in this stand, Stand L generally lacks significant environmental features and should be classified as a Priority 3 Forest Retention Area.

## **9. Significant and Specimen Trees**

A specimen tree is any tree that has a minimum 30-inch DBH, or a DBH within 75% of a State or County Champion. A significant tree is any tree with a DBH between 24 and 30 inches. A total of two hundred (200) specimen trees (Exhibit 18) and three hundred sixty-eight (368) significant trees (Exhibit 19) were observed on or within close proximity to the site. Their GPS locations are demarcated on the NRI/FSD Plan.

## **10. Limitations**

This study is based on examination of the field conditions and available reference documents. Field conditions can change with variations in climatic conditions and time of year. Therefore, our conclusions may vary significantly from future observation by others. This report assesses the potential for forests at the site at the time of our review and does not address conditions at a given time in the future.

Our review and report have been prepared in accordance with generally accepted guidelines for performing a NRI/FSD study. Conclusions presented herein are based upon our review of available information, the results of our field studies, and/or professional judgement. We make no other warranties, either expressed or implied, and our report is not a recommendation to buy, sell or develop the property.

We offer no opinion and do not purport to opine on the possible application of various building codes, zoning ordinances, other land use or platting regulations, environmental or health laws and other similar statutes, laws, ordinances, code, and regulations affecting the possible use and occupancy of the Property for the purpose for which it is being used, except as specifically provided above.

The foregoing opinions are based on applicable laws, ordinances, and regulations in effect as of the date hereof and should not be construed to be an opinion as to the matters set out herein should such laws, ordinances or regulations be modified, repealed, or amended.

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WETLAND STUDIES AND SOLUTIONS, INC.



Michael J. Klebasko, Qualified Professional  
Maryland Environmental Science Manager

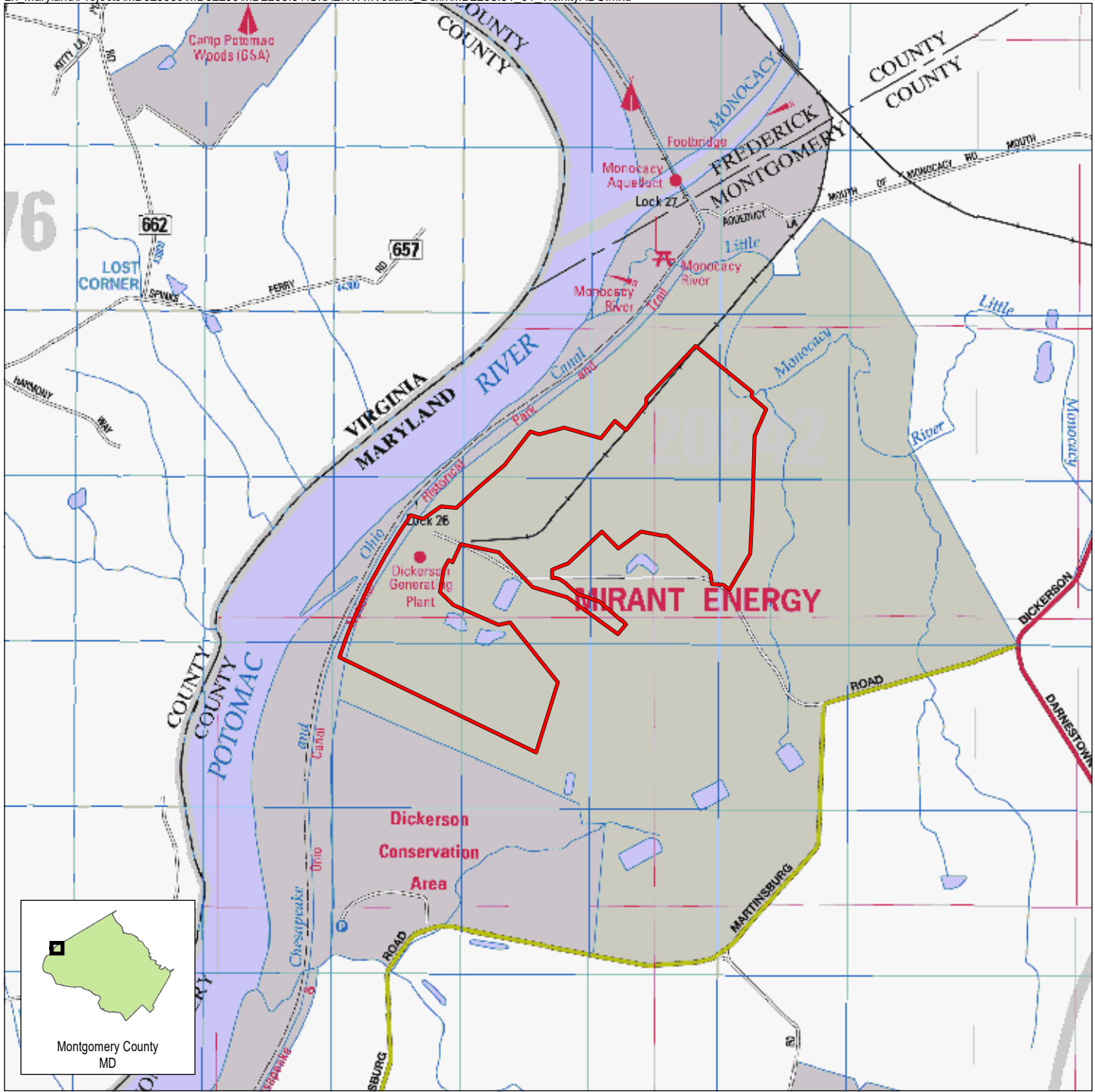


Haley Kelly, P.W.S.  
Senior Environmental Scientist

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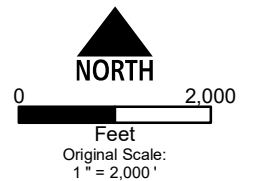
# **EXHIBIT 1**





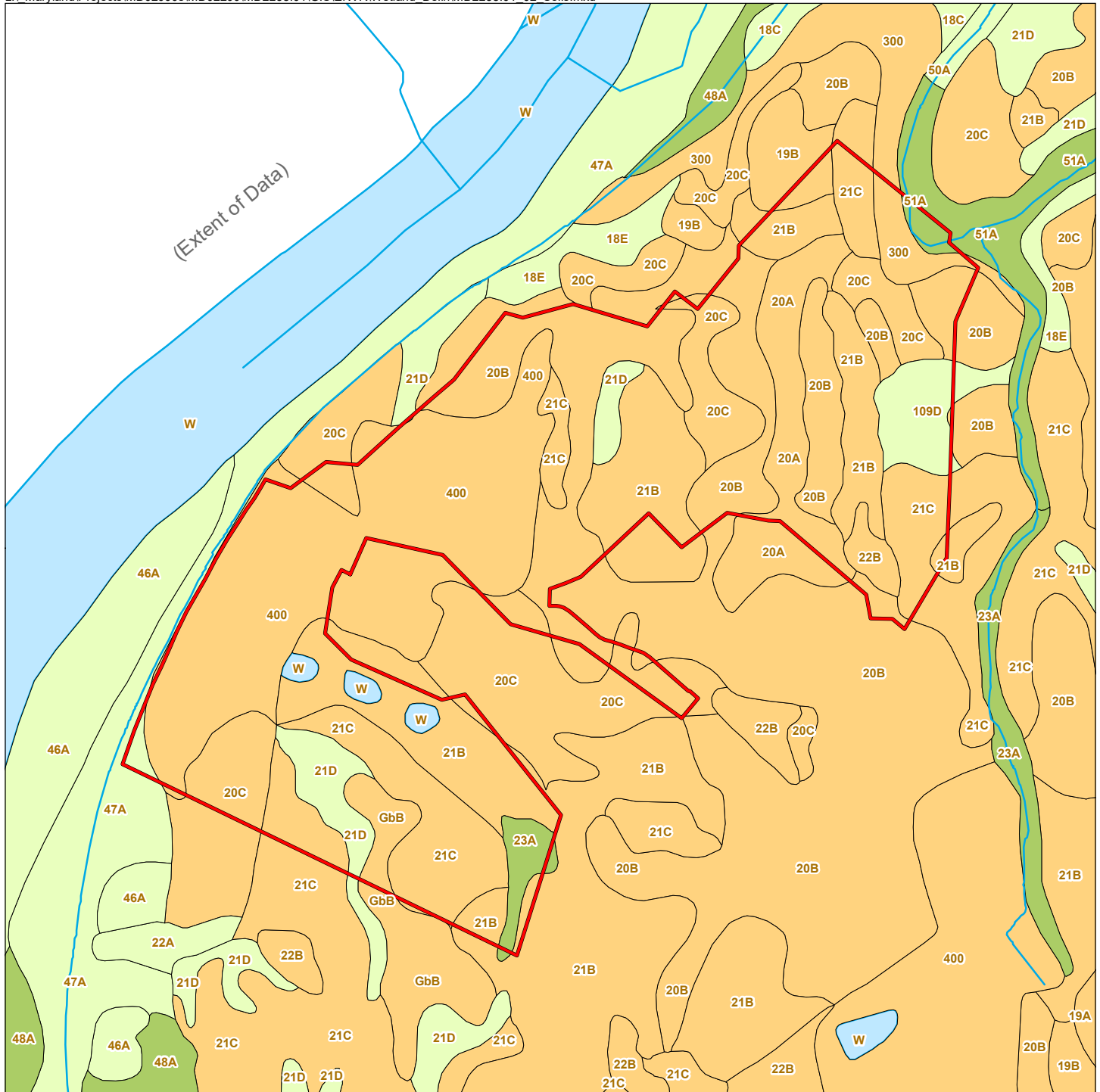
 Site






**Vicinity Map**  
**Dickerson Power Plant**  
**WSSI #MD2258.01**



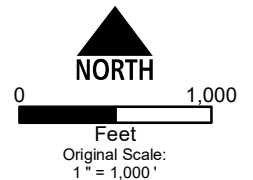
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Source: ADC 2008-2012

## **EXHIBIT 2**



-  Site
-  Hydric Soil
-  Soil with Hydric Inclusion
-  Non-Hydric Soil
-  Water

**Soils Map**  
**Dickerson Power Plant**  
**WSSI #MD2258.01**



Major Land Resource Area: Northern Piedmont, 148  
Land Resource Region: Northern Atlantic Slope Diversified Farming Region, S  
Source: Montgomery County Digital Data, U.S. Department of Agriculture, 2021

## Exhibit 2b: MAPPED SOIL TYPES

Map Unit Symbol	Map Unit Name	Hydric Rating	Hydrologic Soil Group	Highly Erodible
19B	Bucks silt loam, 3 to 8 percent slopes	0	B	No
20A	Brentsville sandy loam, 0 to 3 percent slopes	0	C	No
20B	Brentsville sandy loam, 3 to 8 percent slopes	0	C	No
20C	Brentsville sandy loam, 8 to 15 percent slopes	0	C	No
21B	Penn silt loam, 3 to 8 percent slopes	0	B	No
21C	Penn silt loam, 8 to 15 percent slopes	0	B	No
21D	Penn silt loam, 15 to 25 percent slopes	5	B	Yes
22B	Readington silt loam, 3 to 8 percent slopes	N/A	C	No
23A	Croton silt loam, occasionally ponded, 0 to 3 percent slopes	85	D	No
47A	Lindside silt loam, 0 to 3 percent slopes, occasionally flooded	10	C	No
51A	Bowmansville-Melvin silt loams, 0 to 2 percent slopes, occasionally flooded	100	C/D	No
109D	Hyattstown channery silt loam, 15 to 25 percent slopes, very rocky	5	D	No
300	Rock outcrop-Blocktown complex	0	N/A	No
400	Urban land	0	D	No
GbB	Goresville and Bucks soils, 3 to 8 percent slopes	0	C	No
W	Census water	0	N/A	No

Source: <http://websoilsurvey.nrcs.usda.gov> (August 2023)

# **EXHIBIT 3**



Wes Moore, Governor  
Aruna Miller, Lt. Governor  
Josh Kurtz, Secretary  
David Goshorn, Deputy Secretary

November 29, 2023

Mr. Michael J. Klebasko  
Wetland Studies and Solutions, Inc.  
1131 Benfield Boulevard  
Suite L  
Millersville, Maryland 21108

**RE: Environmental Review for Dickerson Power Plant, 21200 Martinsburg Road, Montgomery County, Maryland.**

Dear Mr. Klebasko:

The Wildlife and Heritage Service has determined that this project site contains a significant portion of the catchment basin to the Three Spring Hollow site. This site encompasses three springs that flow over gravel, rocks, leaves, and woody debris from a small hollow. Some of the invertebrates found in the flowing springs include the state-listed endangered Vandel's Cave Isopod (*Caecidotea vandeli*) and the highly rare Pizzini's Cave Amphipod (*Stygobromus pizzinii*). These species are highly specialized subterranean species that are vulnerable to decreases in water quality. These animals are generally eyeless, colorless, and tiny, but are important parts of a healthy food web, and their sensitivity to degrading water quality make their presence an indication of clean groundwater. We would encourage the applicant to avoid activities that might alter the hydrology or reduce water quality in this system.

In addition, our remote analysis suggests that the forested area on this property contains Forest Interior Dwelling Bird habitat. Populations of many bird species which depend on this type of forested habitat are declining in Maryland and throughout the eastern United States. Interested landowners can contact us for further voluntary guidelines to help conserve this important habitat. The key to maintaining suitable breeding habitat for FIDS, and halting or reversing their declines, is the protection of extensive, unbroken forested areas throughout the region.

If the project changes in the future such that the limits of proposed disturbance or overall site boundaries are modified, please provide us with revised project maps and we will provide you with an updated evaluation. Thank you for allowing us the opportunity to review this project. If you should have any further questions regarding this information, please contact me at [lori.byrne@maryland.gov](mailto:lori.byrne@maryland.gov) or at (410) 260-8573.

Sincerely,

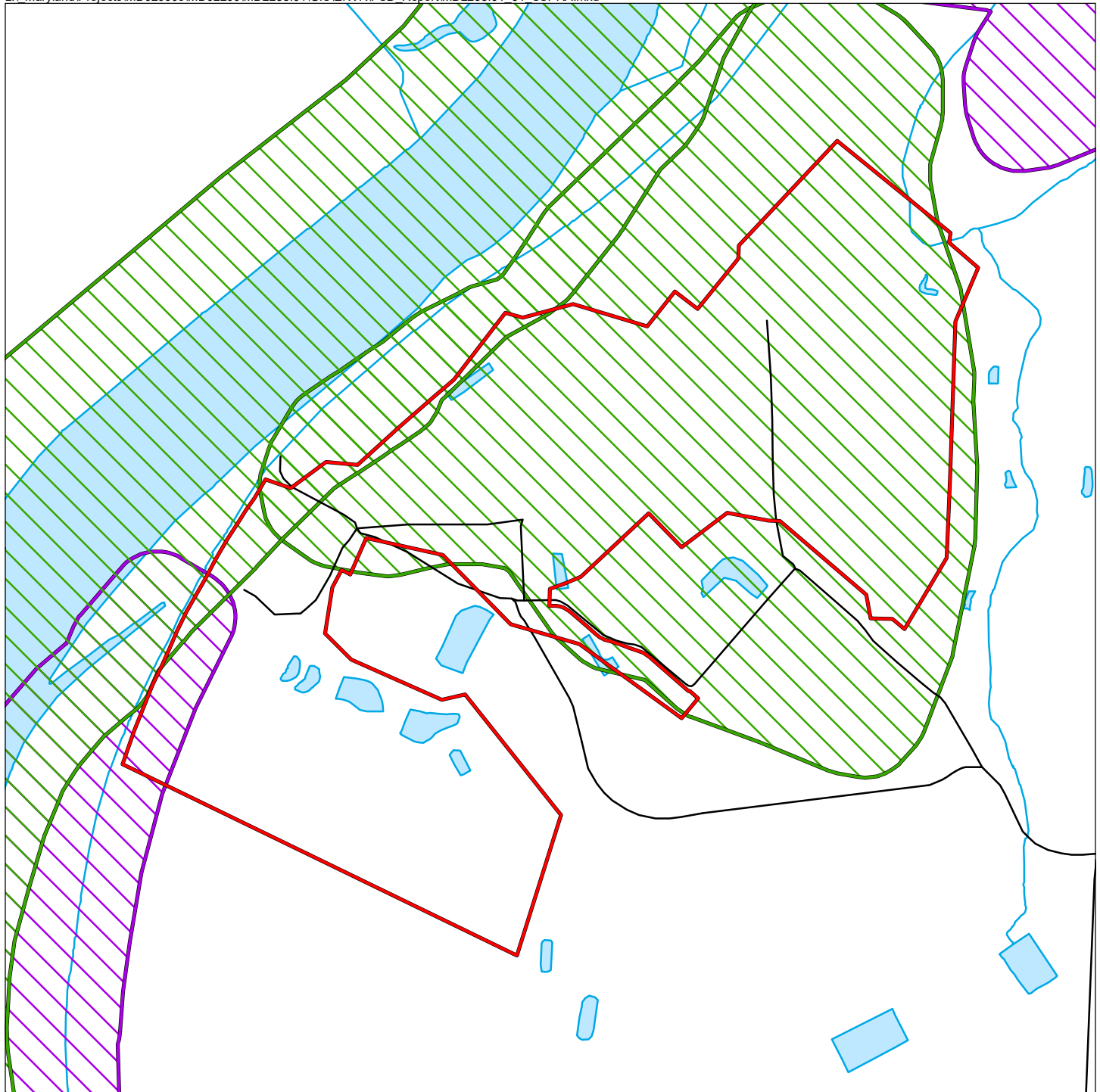
A handwritten signature in black ink that reads "Lori A. Byrne".






Lori A. Byrne,  
Environmental Review Coordinator  
Wildlife and Heritage Service  
MD Dept. of Natural Resources

ER# 2023.1536.mo

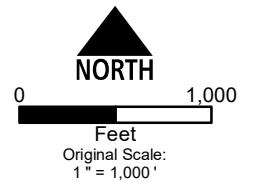


# **EXHIBIT 4**



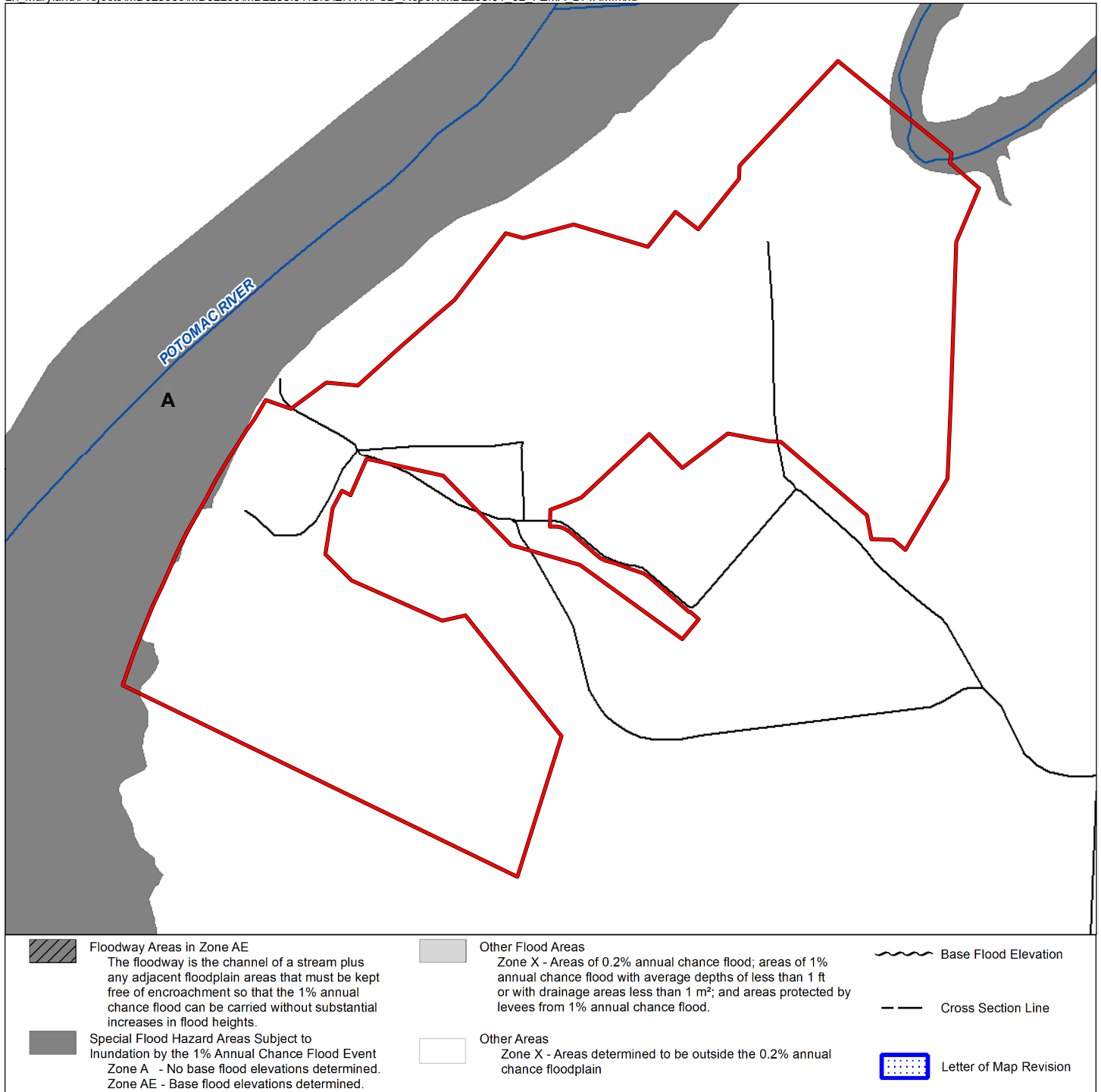
-  Site
-  Federally-Listed Species
-  State-Listed Species
-  Species/Natural Community of Concern with No Official Status
-  Delmarva Fox Squirrel

**Sensitive Species Project Review Areas  
Dickerson Power Plant  
WSSI #MD2258.01**



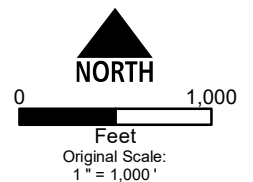
Source: MD Department of Natural Resources (DNR); August 2019

# **EXHIBIT 5**



 Site

**FEMA Digital Flood Insurance Rate Map  
Dickerson Power Plant  
WSSI #MD2258.01**



Panel: 24031C0130D, Effective: 09/29/2006

# **EXHIBIT 6**

**FOREST STAND SUMMARY**

Forest Stand:	A	<u>% Dominance By Species For Stand A</u>	
Acreage:	42.64	<b>Species</b>	<b># Tallied % Dominance</b>
Data Points/Stand:	12	Tulip Poplar	27 40%
Average DBH:	14	Sycamore	9 13%
Number of Trees/Acre:	200	Carya Sp.	8 12%
Number of Tree Species:	15	Slippery Elm	7 10%
Basal Area/Acre:	68	Northern Red Oak	6 9%
Number of Dead Trees/Acre:	31	Red Maple	6 9%
Number of Shrubs per Acre:	392	Black Walnut	5 7%
% Canopy Cover:	90	<b>Total</b>	<b>68 100%</b>
% Herbaceous Cover:	49		
% Downed Woody Material:	7		
% Exotic or Invasive Species:	44		

**FOREST STRUCTURE ANALYSIS**

(As an average per acre for the stand)

Stand Designation                      **A**    Structure Value    **16**

The following parameters comprise an average of data collected at each point for the stand indicated above. The parameters, when combined, give a general representation of the condition and value of the stand.

The total structure value is defined by:

15-21 Priority

7-14 Good

0-6 Poor

Percent Canopy Closure

70-100%	3
40-69%	0
10-39%	0
0-9%	0
	<input type="checkbox"/>

Size Class of Dominant Trees

Greater than 20"	0
6-19.9"	2
3-5.9"	0
Less than 3"	0
	<input type="checkbox"/>

Number of Shrubs per Acre

600 or more	0
400-599	0
200-399	1
0-199	0
	<input type="checkbox"/>

Percent Herbaceous Cover

75-100%	0
25-74%	2
5-24%	0
0-4%	0
	<input type="checkbox"/>

Percent Woody Debris

15-100%	0
5-14%	2
1-4%	0
Less than 1%	0
	<input type="checkbox"/>

# of Tree Species >=6"

6 or more	3
4-5	0
2-3	0
0-1	0
	<input type="checkbox"/>

# Standing Snags per Acre

30 or more	3
20-29	0
10-19	0
0-9	0
	<input type="checkbox"/>



**Forest Stand Delineation**  
**Field Sampling Data Sheet**

Property: Dickerson

Prepared by: LY + JS

Stand: A

Sample Point: 1

Date: 8/23/23

Species	Tallied DBH	Diameter of dead trees $\geq 6"$ DBH tallied at sample point	6,
<i>Quercus Rubra</i>	32,	Percent canopy cover at sample point	100%
<i>J. Nigra</i>	16		
<i>L. tulipifera</i>	20, 22	Percent herbaceous cover at 1/100th acre plot	90
<i>C. (Hickory)</i>	12, 2		
<i>E. Redcedar</i>	6	Percent downed woody debris $\geq 6"$ diameter at 1/10th acre plot	0
		Percent invasive plant cover at 1/100th acre plot	50
		Number of shrubs per 1/100th acre plot	0

**Invasive Species:**  
*Wimberry, Chinese stiltgrass,*

**Common Understory Species (3'-20') layer:**

*Hickory, Pawpaw,*

**Herbaceous Species (0-3' layer):**

*Green briars, Nettle, Sedge spp.*

**Comments:**

(1/100th acre plot = 11.78' radius circle)

(1/10th acre plot = 37.24' radius circle)

**Forest Stand Delineation**  
**Field Sampling Data Sheet**

Property: Dickerson

Prepared by: LY & JS

Stand: A

Sample Point: 2

Date: 8/23/23

Species	Tallied DBH	Diameter of dead trees $\geq 6"$ DBH tallied at sample point	9
Red Maple	7, 11, 9		
N. White Oak	36	Percent canopy cover at sample point	90
		Percent herbaceous cover at 1/100th acre plot	70
		Percent downed woody debris $\geq 6"$ diameter at 1/10th acre plot	10
		Percent invasive plant cover at 1/100th acre plot	50
		Number of shrubs per 1/100th acre plot	7

**Invasive Species:**

Stiltgrass, Noddy leaf basket grass, garlic mustard

**Common Understory Species (3'-20') layer:**

Pawpaw

**Herbaceous Species (0-3' layer):**

N/A

**Comments:**

(1/100th acre plot = 11.78' radius circle)

(1/10th acre plot = 37.24' radius circle)

**Forest Stand Delineation**  
**Field Sampling Data Sheet**

Property: Dickerson Prepared by: LYA JS  
 Stand: A Sample Point: 3 Date: 8/23/23

Species	Tallied DBH	Diameter of dead trees ≥6" DBH tallied at sample point	
E. Redcedar	8		N/A
Sycamore	22, 9	Percent canopy cover at sample point	90
T. Poplar	23, 21, 22		
Black Walnut	9	Percent herbaceous cover at 1/100th acre plot	25
		Percent downed woody debris ≥6" diameter at 1/10th acre plot	10
		Percent invasive plant cover at 1/100th acre plot	60
		Number of shrubs per 1/100th acre plot	2

**Invasive Species:**

Wineberry, Stiltgrass, barberry

**Common Understory Species (3'-20') layer:**

Spiribush, Pawpaw

**Herbaceous Species (0-3' layer):**

Nettle,

**Comments:**

(1/100th acre plot = 11.78' radius circle)

(1/10th acre plot = 37.24' radius circle)

**Forest Stand Delineation**  
**Field Sampling Data Sheet**

Property: Dickerson

Prepared by: LY+JS

Stand: A

Sample Point: 4

Date: 8/23/23

Species	Tallied DBH	Diameter of dead trees $\geq 6"$ DBH tallied at sample point	6,6
Sycamore	24.5,	Percent canopy cover at sample point	100
T. Poplar	24		
Robinia Psu.	16		
Box elder	8, 7	Percent herbaceous cover at 1/100th acre plot	80
Eastern Redcedar	10		
		Percent downed woody debris $\geq 6"$ diameter at 1/10th acre plot	0
		Percent invasive plant cover at 1/100th acre plot	75
		Number of shrubs per 1/100th acre plot	1

**Invasive Species:**

Stiltgrass, Dany leaf basket grass, winberry, barberry

**Common Understory Species (3'-20') layer:**

Spicebush, pawpaw

**Herbaceous Species (0-3' layer):**

Neddly

**Comments:**

(1/100th acre plot = 11.78' radius circle)  
(1/10th acre plot = 37.24' radius circle)

**Forest Stand Delineation**  
**Field Sampling Data Sheet**

Property: Dickerson

Prepared by: LY a JS

Stand: A

Sample Point: 5

Date: 8/23/23

Species	Tallied DBH	Diameter of dead trees $\geq 6"$ DBH tallied at sample point	NA
Red Maple	23.5		NA
T. Poplar	22, 18, 20, 31, 6	Percent canopy cover at sample point	100
		Percent herbaceous cover at 1/100th acre plot	60
		Percent downed woody debris $\geq 6"$ diameter at 1/10th acre plot	5
		Percent invasive plant cover at 1/100th acre plot	50
		Number of shrubs per 1/100th acre plot	6

**Invasive Species:**

Wimberry, barberry, stiltgrass, wavy leaf baskedgrass,

**Common Understory Species (3'-20') layer:**

Pawpaw

**Herbaceous Species (0-3' layer):**

Widdle

**Comments:**

(1/100th acre plot = 11.78' radius circle)  
(1/10th acre plot = 37.24' radius circle)

**Forest Stand Delineation**  
**Field Sampling Data Sheet**

Property: Dickerson

Prepared by: LYAJJ

Stand: A

Sample Point: 6

Date: 8/23/23

Species	Tallied DBH	Diameter of dead trees $\geq 6"$ DBH tallied at sample point	7, 12,
Red Maple	12		
T. Pop	15, 14, 21, 7, 18, 22, 14, 21	Percent canopy cover at sample point	100
N. Red Oak	38.5	Percent herbaceous cover at 1/100th acre plot	5
		Percent downed woody debris $\geq 6"$ diameter at 1/10th acre plot	15
		Percent invasive plant cover at 1/100th acre plot	25
		Number of shrubs per 1/100th acre plot	0

**Invasive Species:**

wineberry, wavy leaf basketgrass

**Common Understory Species (3'-20') layer:**

Panpan, Red Maple, Beech

**Herbaceous Species (0-3' layer):**

Carex species

**Comments:**

(1/100th acre plot = 11.78' radius circle)  
(1/10th acre plot = 37.24' radius circle)



**Forest Stand Delineation**  
**Field Sampling Data Sheet**

Property: Dickerson Prepared by: LX

Stand: A Sample Point: 7 Date: 8/24/23

Species	Tallied DBH	Diameter of dead trees $\geq 6"$ DBH tallied at sample point	6
Tulip tree	16, 8, 16, 25, 14		
S. red oak	37	Percent canopy cover at sample point	100
Sycamore	12, 14		
Hickory	5	Percent herbaceous cover at 1/100th acre plot	70
		Percent downed woody debris $\geq 6"$ diameter at 1/10th acre plot	5
		Percent invasive plant cover at 1/100th acre plot	50
		Number of shrubs per 1/100th acre plot	86

**Invasive Species:** wineberry  
3sp. st. Hogweed  
wavy leaf basket grass

**Common Understory Species (3'-20') layer:**

paup paup

**Herbaceous Species (0-3' layer):** nettle

**Comments:**

(1/100th acre plot = 11.78' radius circle)  
(1/10th acre plot = 37.24' radius circle)

**Forest Stand Delineation**  
**Field Sampling Data Sheet**

Property: Dickerson Prepared by: KHL  
Stand: A Sample Point: 8 Date: 8/31/23

Species	Tallied DBH	Diameter of dead trees $\geq 6"$ DBH tallied at sample point	
Tulip tree	47, 45, 32, 47		0
Carya spp.	4,	Percent canopy cover at sample point	55
Am. Sycamore	24, 24		
Ulmus spp.		Percent herbaceous cover at 1/100th acre plot	100
Slippery elm	15		
Walnut	21, 23	Percent downed woody debris $\geq 6"$ diameter at 1/10th acre plot	10
		Percent invasive plant cover at 1/100th acre plot	90
		Number of shrubs per 1/100th acre plot	5

**Invasive Species:** wineberry, waxy leaf basket grass

**Common Understory Species (3'-20') layer:**

Pawpaw, spicebush

**Herbaceous Species (0-3' layer):**

wineberry, waxy leaf basket grass

**Comments:**

(1/100th acre plot = 11.78' radius circle)  
(1/10th acre plot = 37.24' radius circle)

**Forest Stand Delineation**  
**Field Sampling Data Sheet**

Property: Dickerson Prepared by: KH/LY  
Stand: A Sample Point: 9 Date: 8/31/23

Species	Tallied DBH	Diameter of dead trees $\geq 6"$ DBH tallied at sample point	
Elm	12, 7, 17		7 15 13 12 11
red maple	12	Percent canopy cover at sample point	80
northern red	10, 19	Percent herbaceous cover at 1/100th acre plot	70
tulip poplar	28		
Ailanthus	7	Percent downed woody debris $\geq 6"$ diameter at 1/10th acre plot	10
		Percent invasive plant cover at 1/100th acre plot	70
		Number of shrubs per 1/100th acre plot	9

**Invasive Species:** waxy leaf basket grass, wineberry, Ailanthus, Altissima

**Common Understory Species (3'-20') layer:**

Paw paw

**Herbaceous Species (0-3' layer):**

Crown beard, waxy leaf basket grass, wineberry, paw paw

**Comments:**

(1/100th acre plot = 11.78' radius circle)  
(1/10th acre plot = 37.24' radius circle)

**Forest Stand Delineation**  
**Field Sampling Data Sheet**

Property: Dickerson PP

Prepared by: KH/LY

Stand: A

Sample Point: 10

Date: 8/31/23

Species	Tallied DBH	Diameter of dead trees $\geq 6"$ DBH tallied at sample point	
Pawpaw	5, 2		0
Walnut	14	Percent canopy cover at sample point	85
elm	20, 39		
Sycamore	24, 19	Percent herbaceous cover at 1/100th acre plot	4
Palonia	7, 8		
		Percent downed woody debris $\geq 6"$ diameter at 1/10th acre plot	6
		Percent invasive plant cover at 1/100th acre plot	2
		Number of shrubs per 1/100th acre plot	7

**Invasive Species:**

Wavy leaf basket grass, garlic mustard

**Common Understory Species (3'-20') layer:**

Pawpaw

**Herbaceous Species (0-3' layer):**

Christmas fern, Wavy leaf basket grass, pawpaw, garlic mustard, VA creeper

**Comments:**

(1/100th acre plot = 11.78' radius circle)

(1/10th acre plot = 37.24' radius circle)

**Forest Stand Delineation**  
**Field Sampling Data Sheet**

Property: Dickerson PP

Prepared by: KH/LY

Stand: A

Sample Point: 11

Date: 8/31/23

Species	Tallied DBH	Diameter of dead trees $\geq 6"$ DBH tallied at sample point	
Hickory	3, 3, 7		15, 18, 13, 17
Whip poplar	17, 23, 18	Percent canopy cover at sample point	95
VA pine	12		
Black cherry	14, 10	Percent herbaceous cover at 1/100th acre plot	2
Northern Red	19, 22		
elm	5	Percent downed woody debris $\geq 6"$ diameter at 1/10th acre plot	10
		Percent invasive plant cover at 1/100th acre plot	1
		Number of shrubs per 1/100th acre plot	0

**Invasive Species:**

Wavy leaf basket grass

**Common Understory Species (3'-20') layer:**

**Herbaceous Species (0-3' layer):**

Pawpaw, Wavy leaf basket grass

**Comments:**

(1/100th acre plot = 11.78' radius circle)

(1/10th acre plot = 37.24' radius circle)

**Forest Stand Delineation**  
**Field Sampling Data Sheet**

Property: Dickerson PP Prepared by: KA/LY  
 Stand: A Sample Point: 12 Date: 8/31/23

Species	Tallied DBH	Diameter of dead trees $\geq 6"$ DBH tallied at sample point	21 32
Elm	5		
twip poplar	45, 37, 22	Percent canopy cover at sample point	90
hickory	10, 7		
red maple	14	Percent herbaceous cover at 1/100th acre plot	7
Northern red	19, 32, 3		
Sycamore	33	Percent downed woody debris $\geq 6"$ diameter at 1/10th acre plot	8
		Percent invasive plant cover at 1/100th acre plot	2
		Number of shrubs per 1/100th acre plot	2

**Invasive Species:**

Wineberry, waxy leaf basket grass

**Common Understory Species (3'-20') layer:**

Pawpaw

**Herbaceous Species (0-3' layer):**

gill-over-ground, grass sp, red maple, waxy leaf basket grass, wineberry

**Comments:**

(1/100th acre plot = 11.78' radius circle)  
 (1/10th acre plot = 37.24' radius circle)

# **EXHIBIT 7**

**FOREST STAND SUMMARY**

Forest Stand:	B	<u>% Dominance By Species For Stand B</u>	
Acreage:	3.44	<b>Species</b>	<b># Tallied % Dominance</b>
Data Points/Stand:	2	Northern red oak	2 11%
Average DBH:	17	American Elm	8 44%
Number of Trees/Acre:	163	Paw paw	1 6%
Number of Tree Species:	7	Silver maple	3 17%
Basal Area/Acre:	80	Red maple	1 6%
Number of Dead Trees/Acre:	20	Black gum	1 6%
Number of Shrubs per Acre:	0	Black walnut	2 11%
% Canopy Cover:	63	<b>Total</b>	<b>18 100%</b>
% Herbaceous Cover:	48		
% Downed Woody Material:	5		
% Exotic or Invasive Species:	13		

**FOREST STRUCTURE ANALYSIS**

(As an average per acre for the stand)

Stand Designation                      **B**    Structure Value    **12**

The following parameters comprise an average of data collected at each point for the stand indicated above. The parameters, when combined, give a general representation of the condition and value of the stand.

The total structure value is defined by:

15-21 Priority

7-14 Good

0-6 Poor

Percent Canopy Closure

70-100%	0
40-69%	2
10-39%	0
0-9%	0
	<input type="checkbox"/>

Size Class of Dominant Trees

Greater than 20"	0
6-19.9"	2
3-5.9"	0
Less than 3"	0
	<input type="checkbox"/>

Number of Shrubs per Acre

600 or more	0
400-599	0
200-399	0
0-199	0
	<input type="checkbox"/>

Percent Herbaceous Cover

75-100%	0
25-74%	2
5-24%	0
0-4%	0
	<input type="checkbox"/>

Percent Woody Debris

15-100%	0
5-14%	2
1-4%	0
Less than 1%	0
	<input type="checkbox"/>

# of Tree Species >=6"

6 or more	3
4-5	0
2-3	0
0-1	0
	<input type="checkbox"/>

# Standing Snags per Acre

30 or more	0
20-29	0
10-19	1
0-9	0
	<input type="checkbox"/>



**Forest Stand Delineation  
Field Sampling Data Sheet**

Property: Dickerson Power Plant Prepared by: MF

Stand: ~~SD 1004~~ B Sample Point: ~~13~~ 13 Date: 8/30/23

Species	Tallied DBH	Diameter of dead trees ≥6" DBH tallied at sample point	
am. elm	20, 12, 10, <del>8, 10, 10, 10</del> 27	0	
paw paw	3	Percent canopy cover at sample point	55
silver maple	<del>8, 10, 10, 10</del> 29		
red maple	15	Percent herbaceous cover at 1/100th acre plot	50
black gum	12		
black walnut	13, 21	Percent downed woody debris ≥6" diameter at 1/10th acre plot	5
		Percent invasive plant cover at 1/100th acre plot	10
		Number of shrubs per 1/100th acre plot	0

**Invasive Species:** bristle leaf basketgrass, L. japonica

**Common Understory Species (3'-20') layer:** paw paw, black gum

**Herbaceous Species (0-3' layer):** invasives, paw paw, black gum, wineberry, VA creeper, garlic mustard, snake root, pos sp.

**Comments:**

(1/100th acre plot = 11.78' radius circle)  
(1/10th acre plot = 37.24' radius circle)

B

**Forest Stand Delineation**  
**Field Sampling Data Sheet**

Property: Dickerson Power Plant

Prepared by: MF/DL

Stand: B

Sample Point: 14 ~~218~~

Date: 08/31/23

Species	Tallied DBH	Diameter of dead trees $\geq 6"$ DBH tallied at sample point	
Elm	15, 51, 12, 15, 12		8/3
N. red oak	<del>8, 33</del> 8, 33	Percent canopy cover at sample point	70%
Silver maple	<del>33, 34</del> 33, 34		
		Percent herbaceous cover at 1/100th acre plot	45%
		Percent downed woody debris $\geq 6"$ diameter at 1/10th acre plot	5%
		Percent invasive plant cover at 1/100th acre plot	15%
		Number of shrubs per 1/100th acre plot	0

**Invasive Species:**

Wineberry, L. japonica, Bristle basket grass

**Common Understory Species (3'-20') layer:**

Paw paw, A. elm,

**Herbaceous Species (0-3' layer):**

Wineberry, L. japonica, Bristle basket grass, poa sp., paw paw, box elder, red maple, snakeroot, black gum

**Comments:**

(1/100th acre plot = 11.78' radius circle)

(1/10th acre plot = 37.24' radius circle)

# **EXHIBIT 8**

**FOREST STAND SUMMARY**

Forest Stand:	C	<u>% Dominance By Species For Stand C</u>	
Acreage:	3.19	<b>Species</b>	<b># Tallied % Dominance</b>
Data Points/Stand:	3	Box elder	13 33%
Average DBH:	12	Hickory sp.	1 3%
Number of Trees/Acre:	511	Sycamore	14 36%
Number of Tree Species:	8	American elm	6 15%
Basal Area/Acre:	130	Black walnut	1 3%
Number of Dead Trees/Acre:	27	Autumn olive	2 5%
Number of Shrubs per Acre:	267	Black locust	1 3%
% Canopy Cover:	67	Eastern red cedar	1 3%
% Herbaceous Cover:	38	<b>Total</b>	<b>39 100%</b>
% Downed Woody Material:	5		
% Exotic or Invasive Species:	15		

**FOREST STRUCTURE ANALYSIS**

(As an average per acre for the stand)

<u>Stand Designation</u>	<b>C</b>	<u>Structure Value</u>	<b>15</b>
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The following parameters comprise an average of data collected at each point for the stand indicated above. The parameters, when combined, give a general representation of the condition and value of the stand.

The total structure value is defined by:

15-21 Priority

7-14 Good

0-6 Poor

Percent Canopy Closure

70-100%	0
40-69%	2
10-39%	0
0-9%	0
	<input type="checkbox"/>

Number of Shrubs per Acre

600 or more	0
400-599	0
200-399	1
0-199	0
	<input type="checkbox"/>

Percent Woody Debris

15-100%	0
5-14%	2
1-4%	1
Less than 1%	0
	<input type="checkbox"/>

# Standing Snags per Acre

30 or more	0
20-29	2
10-19	0
0-9	0
	<input type="checkbox"/>

Size Class of Dominant Trees

Greater than 20"	0
6-19.9"	2
3-5.9"	0
Less than 3"	0
	<input type="checkbox"/>

Percent Herbaceous Cover

75-100%	0
25-74%	2
5-24%	0
0-4%	0
	<input type="checkbox"/>

# of Tree Species >=6"

6 or more	3
4-5	0
2-3	0
0-1	0
	<input type="checkbox"/>

C\*

## Forest Stand Delineation Field Sampling Data Sheet

Property: Dickerson Power Plant      Prepared by: MFIDL

Stand: C      Sample Point: ~~16~~ 15      Date: 08/31/23

Species	Tallied DBH	Diameter of dead trees ≥6" DBH tallied at sample point	
Box elder	5, 3, 10, 10		0
Elm	20, 22, 9	Percent canopy cover at sample point	85%
Sycamore	<del>20, 20, 20</del> 42, 31		
Hickory	8	Percent herbaceous cover at 1/100th acre plot	65%
		Percent downed woody debris ≥6" diameter at 1/10th acre plot	2%
		Percent invasive plant cover at 1/100th acre plot	15%
		Number of shrubs per 1/100th acre plot	2
<b>Invasive Species:</b> <u>M. viminalis, J. barberry, wineberry, R. multiflora, L. japonica</u>			
<b>Common Understory Species (3'-20') layer:</b> <u>Box elder, paw paw, elm</u>			
<b>Herbaceous Species (0-3' layer):</b> <u>M. viminalis, Boehmeria, red maple, box elder, blackgum, wineberry, greenbrier, R. multiflora, L. japonica, Cinna, T. radicans</u>			
<b>Comments:</b>			

(1/100th acre plot = 11.78' radius circle)

(1/10th acre plot = 37.24' radius circle)



**Forest Stand Delineation**  
**Field Sampling Data Sheet**

Property: Dickerson Power Plant Prepared by: MF/DL

Stand: C Sample Point: 16 ~~to 18~~ Date: 08/31/23

Species	Tallied DBH	Diameter of dead trees $\geq 6"$ DBH tallied at sample point	
Box elder	10, 5, 13, 14, 9, 6, 18, 14		6, 11, 27, 12
Sycamore	<del>8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40</del> 41, 31	Percent canopy cover at sample point	65%
Elm	18		
Black walnut	> 1	Percent herbaceous cover at 1/100th acre plot	30%
		Percent downed woody debris $\geq 6"$ diameter at 1/10th acre plot	5%
		Percent invasive plant cover at 1/100th acre plot	10%
		Number of shrubs per 1/100th acre plot	2

**Invasive Species:**

Wineberry, *M. viminalis*, *L. japonica*

**Common Understory Species (3'-20') layer:**

Box elder, paw paw, elm, *L. benzoin*

**Herbaceous Species (0-3' layer):**

Wineberry, *M. viminalis*, *L. japonica*, shakeroot, box elder, black gum, paw paw, *J. barberry*, Christmas fern, garlic mustard, poa sp.

**Comments:**

(1/100th acre plot = 11.78' radius circle)

(1/10th acre plot = 37.24' radius circle)

**Forest Stand Delineation**  
**Field Sampling Data Sheet**

Property: Dickerson Power Plant Prepared by: DL

Stand: C

Sample Point: 41

Date: 9/8/23

Species	Tallied DBH	Diameter of dead trees $\geq 6"$ DBH tallied at sample point	
Am. sycamore	8, 7, 14, 11, 4, 13, 6, 7, 6	Percent canopy cover at sample point	n/a
autumn olive	3, 3		50
black locust	9		
boxelder	7	Percent herbaceous cover at 1/100th acre plot	20
e. red cedar	5		
am. elm	8, 13	Percent downed woody debris $\geq 6"$ diameter at 1/10th acre plot	7
		Percent invasive plant cover at 1/100th acre plot	20
		Number of shrubs per 1/100th acre plot	4

**Invasive Species:** wineberry, autumn olive, jap. honeysuckle

**Common Understory Species (3'-20') layer:** sycamore, boxelder, olive

**Herbaceous Species (0-3' layer):** invasives listed above, white snakeroot, poa sp.

**Comments:**

(1/100th acre plot = 11.78' radius circle)

(1/10th acre plot = 37.24' radius circle)

# **EXHIBIT 9**



**FOREST STAND SUMMARY**

Forest Stand:	D	<u>% Dominance By Species For Stand D</u>	
Acreage:	1.04	<b>Species</b>	<b># Tallied % Dominance</b>
Data Points/Stand:	2	Red Maple	11 52%
Average DBH:	12	Black Walnut	1 5%
Number of Trees/Acre:	529	Sassafras	1 5%
Number of Tree Species:	12	White Oak	2 10%
Basal Area/Acre:	135	Northern Red Oak	1 5%
Number of Dead Trees/Acre:	28	American Dogwood	2 10%
Number of Shrubs per Acre:	100	Eastern Red Cedar	1 5%
% Canopy Cover:	68	Black Cherry	2 10%
% Herbaceous Cover:	50	<b>Total</b>	<b>21 100%</b>
% Downed Woody Material:	4		
% Exotic or Invasive Species:	23		

**FOREST STRUCTURE ANALYSIS**

(As an average per acre for the stand)

Stand Designation                      **D**    Structure Value    **12**

The following parameters comprise an average of data collected at each point for the stand indicated above. The parameters, when combined, give a general representation of the condition and value of the stand.

The total structure value is defined by:

- 15-21 Priority
- 7-14 Good
- 0-6 Poor

Percent Canopy Closure

70-100%	0
40-69%	2
10-39%	0
0-9%	0

Number of Shrubs per Acre

600 or more	0
400-599	0
200-399	0
0-199	0

Percent Woody Debris

15-100%	0
5-14%	0
1-4%	1
Less than 1%	0

# Standing Snags per Acre

30 or more	0
20-29	2
10-19	0
0-9	0

Size Class of Dominant Trees

Greater than 20"	0
6-19.9"	2
3-5.9"	0
Less than 3"	0

Percent Herbaceous Cover

75-100%	0
25-74%	2
5-24%	0
0-4%	0

# of Tree Species >=6"

6 or more	3
4-5	0
2-3	0
0-1	0

**Forest Stand Delineation**  
**Field Sampling Data Sheet**

Property: Dickerson Power Plant Prepared by: MF/DP

Stand: D Sample Point: 17 Date: 08/31/23

Species	Tallied DBH	Diameter of dead trees $\geq 6"$ DBH tallied at sample point	18
Red maple	2, 9, 6, 9, 8, 8, 8		
Black walnut	12	Percent canopy cover at sample point	70%
Sassafras	8,		
White oak	26, 32	Percent herbaceous cover at 1/100th acre plot	60%
N. red oak	31		
		Percent downed woody debris $\geq 6"$ diameter at 1/10th acre plot	2%
		Percent invasive plant cover at 1/100th acre plot	35%
		Number of shrubs per 1/100th acre plot	0

**Invasive Species:**

*M. vimineum*, wineberry, *Ailanthus*, *S. barberry*

**Common Understory Species (3'-20') layer:**

red maple, paw paw, elm, sassafras, black cherry

**Herbaceous Species (0-3' layer):**

*M. vimineum*, white shakeroot, wineberry, *S. barberry*, sassafras, black gum

**Comments:**

(1/100th acre plot = 11.78' radius circle)  
(1/10th acre plot = 37.24' radius circle)

D

**Forest Stand Delineation**  
**Field Sampling Data Sheet**

Property: Dickerson Power Plant Prepared by: MF/DL

Stand: D Sample Point: ~~17~~ 18 Date: 08/31/23

Species	Tallied DBH	Diameter of dead trees $\geq 6"$ DBH tallied at sample point	
American dogwood	4		6
Red maple	6, 11, 16	Percent canopy cover at sample point	65%
Eastern red cedar	9		
Cherry	12, 12	Percent herbaceous cover at 1/100th acre plot	40%
Box elder	8		
Elm	12,	Percent downed woody debris $\geq 6"$ diameter at 1/10th acre plot	5%
Ailanthus	13		
Silver maple	10, 14, 15	Percent invasive plant cover at 1/100th acre plot	10%
		Number of shrubs per 1/100th acre plot	2
<b>Invasive Species:</b> Wireberry, <i>M. vimineum</i> , Ailanthus, autumn olive, <i>S. barberry</i> .			
<b>Common Understory Species (3'-20') layer:</b> American dogwood, autumn olive, box elder, paw paw			
<b>Herbaceous Species (0-3' layer):</b> White snakeroot, paw paw, poa sp., <i>M. vimineum</i> , <i>V. creeper</i> , wireberry, <i>S. barberry</i>			
<b>Comments:</b>			

(1/100th acre plot = 11.78' radius circle)

(1/10th acre plot = 37.24' radius circle)

# **EXHIBIT 10**

**FOREST STAND SUMMARY**

Forest Stand:	E	<u>% Dominance By Species For Stand E</u>		
Acreage:	4.78	<b>Species</b>	<b># Tallied</b>	<b>% Dominance</b>
Data Points/Stand:	3	Black Locust	26	67%
Average DBH:	8	Silver Maple	2	5%
Number of Trees/Acre:	911	Black Cherry	4	10%
Number of Tree Species:	8	Eastern Red Cedar	2	5%
Basal Area/Acre:	130	American Paw Paw	1	3%
Number of Dead Trees/Acre:	76	Boxelder maple	2	5%
Number of Shrubs per Acre:	100	Elm	1	3%
% Canopy Cover:	63	White ash	1	3%
% Herbaceous Cover:	92	<b>Total</b>	<b>39</b>	<b>100%</b>
% Downed Woody Material:	3			
% Exotic or Invasive Species:	67			

**FOREST STRUCTURE ANALYSIS**

(As an average per acre for the stand)

Stand Designation                      **E**    Structure Value    **14**

The following parameters comprise an average of data collected at each point for the stand indicated above. The parameters, when combined, give a general representation of the condition and value of the stand.

The total structure value is defined by:

15-21 Priority

7-14 Good

0-6 Poor

Percent Canopy Closure

70-100%	0
40-69%	2
10-39%	0
0-9%	0

Number of Shrubs per Acre

600 or more	0
400-599	0
200-399	0
0-199	0

Percent Woody Debris

15-100%	0
5-14%	0
1-4%	1
Less than 1%	0

# Standing Snags per Acre

30 or more	3
20-29	0
10-19	0
0-9	0

Size Class of Dominant Trees

Greater than 20"	0
6-19.9"	2
3-5.9"	0
Less than 3"	0

Percent Herbaceous Cover

75-100%	3
25-74%	0
5-24%	0
0-4%	0

# of Tree Species >=6"

6 or more	3
4-5	0
2-3	0
0-1	0

Forest Stand Delineation  
Field Sampling Data Sheet

Property: Dickerson Power Plant

Prepared by: MF

Stand: E

Sample Point: 19

Date: 08/31/23

Species	Tallied DBH	Diameter of dead trees $\geq 6"$ DBH tallied at sample point	
Black locust	9, 4, 5, 6, 4, 7, 5, 6, 6, 5, 7, 4, 3, 8		8
Eastern red cedar	14, 10		
		Percent canopy cover at sample point	70%
		Percent herbaceous cover at 1/100th acre plot	95%
		Percent downed woody debris $\geq 6"$ diameter at 1/10th acre plot	2%
		Percent invasive plant cover at 1/100th acre plot	60%
		Number of shrubs per 1/100th acre plot	6
<b>Invasive Species:</b> <i>Microstegium vimineum</i>			
<b>Common Understory Species (3'-20') layer:</b> Black locust, Eastern red cedar			
<b>Herbaceous Species (0-3' layer):</b> <i>M. vimineum</i> , white shakeroot, carex sp.			
<b>Comments:</b>			

(1/100th acre plot = 11.78' radius circle)

(1/10th acre plot = 37.24' radius circle)



2

## Forest Stand Delineation Field Sampling Data Sheet

Property: Dickerson Power Plant Prepared by: MF/DL

Stand: E Sample Point: 20 ~~3~~ Date: 08/31/23

Species	Tallied DBH	Diameter of dead trees $\geq 6$ " DBH tallied at sample point	
Black locust	6, 6, 4, 5, 5, 7, 4, 6, 5	Percent canopy cover at sample point	8, 6, 11
Silver maple	8, 12, 2		40%
Black cherry	15	Percent herbaceous cover at 1/100th acre plot	
			Percent downed woody debris $\geq 6$ " diameter at 1/10th acre plot
		Percent invasive plant cover at 1/100th acre plot	
			Number of shrubs per 1/100th acre plot
<b>Invasive Species:</b> <u>M. vimineum, L. japonica, whit</u>			
<b>Common Understory Species (3'-20') layer:</b> <u>Black locust</u>			
<b>Herbaceous Species (0-3' layer):</b> <u>Deer tongue, white shakeroot, v. creeper, m. vimineum</u>			
<b>Comments:</b>			

(1/100th acre plot = 11.78' radius circle)  
(1/10th acre plot = 37.24' radius circle)

**Forest Stand Delineation**  
**Field Sampling Data Sheet**

Property: Dickerson Power Plant Prepared by: MF/KH

Stand: E Sample Point: 21 Date: 9/6/23

Species	Tallied DBH	Diameter of dead trees $\geq 6"$ DBH tallied at sample point	
Black locust	7, 13, 6, 5, 6	Percent canopy cover at sample point	8, 7, 7
Black cherry	18, 13, 19		80%
Paw paw	2	Percent herbaceous cover at 1/100th acre plot	85%
Box elder	14, 11		
Elm	20	Percent downed woody debris $\geq 6"$ diameter at 1/10th acre plot	5%
White ash	17		
		Percent invasive plant cover at 1/100th acre plot	60%
		Number of shrubs per 1/100th acre plot	2
<b>Invasive Species:</b> Wineberry, <i>M. vimineum</i> , garlic mustard, autumn olive.			
<b>Common Understory Species (3'-20') layer:</b> paw paw, black cherry, black locust, autumn olive, box elder			
<b>Herbaceous Species (0-3' layer):</b> Wineberry, <i>M. vimineum</i> , garlic mustard, white snakeroot, aster sp.			
<b>Comments:</b>			

(1/100th acre plot = 11.78' radius circle)  
(1/10th acre plot = 37.24' radius circle)



# **EXHIBIT 11**

**FOREST STAND SUMMARY**

Forest Stand:	F	<u>% Dominance By Species For Stand F</u>	
Acreage:	13.19	<b>Species</b>	<b># Tallied % Dominance</b>
Data Points/Stand:	5	Box elder	16 30%
Average DBH:	16	Tulip poplar	15 28%
Number of Trees/Acre:	219	Silver maple	6 11%
Number of Tree Species:	9	Black cherry	13 24%
Basal Area/Acre:	110	Red maple	1 2%
Number of Dead Trees/Acre:	60	Mulberry	1 2%
Number of Shrubs per Acre:	520	Sassafrass	1 2%
% Canopy Cover:	75	Eastern red cedar	1 2%
% Herbaceous Cover:	70	<b>Total</b>	<b>54 100%</b>
% Downed Woody Material:	4		
% Exotic or Invasive Species:	63		

**FOREST STRUCTURE ANALYSIS**

(As an average per acre for the stand)

<u>Stand Designation</u>	<b>F</b>	<u>Structure Value</u>	<b>16</b>
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The following parameters comprise an average of data collected at each point for the stand indicated above. The parameters, when combined, give a general representation of the condition and value of the stand.

The total structure value is defined by:

15-21 Priority

7-14 Good

0-6 Poor

<u>Percent Canopy Closure</u>		<u>Size Class of Dominant Trees</u>	
70-100%	3	Greater than 20"	0
40-69%	0	6-19.9"	2
10-39%	0	3-5.9"	0
0-9%	0	Less than 3"	0
	<input type="checkbox"/>		<input type="checkbox"/>
<u>Number of Shrubs per Acre</u>		<u>Percent Herbaceous Cover</u>	
600 or more	0	75-100%	0
400-599	2	25-74%	2
200-399	0	5-24%	0
0-199	0	0-4%	0
	<input type="checkbox"/>		<input type="checkbox"/>
<u>Percent Woody Debris</u>		<u># of Tree Species &gt;=6"</u>	
15-100%	0	6 or more	3
5-14%	0	4-5	0
1-4%	1	2-3	0
Less than 1%	0	0-1	0
	<input type="checkbox"/>		<input type="checkbox"/>
<u># Standing Snags per Acre</u>			
30 or more	3		
20-29	0		
10-19	0		
0-9	0		
	<input type="checkbox"/>		

F

**Forest Stand Delineation**  
**Field Sampling Data Sheet**

Property: Dickerson Power PlantPrepared by: MF/DLStand: FSample Point: 22 #Date: 09/01/23

Species	Tallied DBH	Diameter of dead trees ≥6" DBH tallied at sample point	
Box elder	3		6, 8, 7
Tulip poplar	8, <del>10, 11</del> , 14, 13, <del>15, 16</del> , 17, 28, 27	Percent canopy cover at sample point	90%
Silver maple	<del>10, 11, 12</del> , 19, 25		
		Percent herbaceous cover at 1/100th acre plot	80%
		Percent downed woody debris ≥6" diameter at 1/10th acre plot	5%
		Percent invasive plant cover at 1/100th acre plot	60%
		Number of shrubs per 1/100th acre plot	2
<b>Invasive Species:</b> <u>M. vimineum, autumn olive, wineberry</u>			
<b>Common Understory Species (3'-20') layer:</b> <u>Box elder, poplar, paw paw</u>			
<b>Herbaceous Species (0-3' layer):</b> <u>White stake root, paw paw, autumn olive, M. vimineum</u>			
<b>Comments:</b>			

(1/100th acre plot = 11.78' radius circle)

(1/10th acre plot = 37.24' radius circle)

**Forest Stand Delineation  
Field Sampling Data Sheet**

Property: Dickerson Power Plant

Prepared by: MF/IDL

Stand: F

Sample Point: 23

Date: 09/01/23

Species	Tallied DBH	Diameter of dead trees $\geq 6"$ DBH tallied at sample point	15, 6, 5
Black cherry	16, 12	Percent canopy cover at sample point	75%
Box elder	17		
Tulip poplar	<del>8, 12, 14, 18, 20, 22, 24, 26, 28, 30</del> 10, 21, 24, 25, 31	Percent herbaceous cover at 1/100th acre plot	85%
Red maple	16		
Silver maple	<del>10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30</del> 96	Percent downed woody debris $\geq 6"$ diameter at 1/10th acre plot	5%
		Percent invasive plant cover at 1/100th acre plot	75%
		Number of shrubs per 1/100th acre plot	2
<b>Invasive Species:</b> <u>M. vimineum, autumn olive</u>			
<b>Common Understory Species (3'-20') layer:</b> <u>Box elder, paw paw</u>			
<b>Herbaceous Species (0-3' layer):</b> <u>M. vimineum, autumn olive, white suckerroot, paw paw</u>			
<b>Comments:</b>			

(1/100th acre plot = 11.78' radius circle)

(1/10th acre plot = 37.24' radius circle)

**Forest Stand Delineation**  
**Field Sampling Data Sheet**

Property: Dickerson Power Plant

Prepared by: MF/DL

Stand: F

Sample Point: 24 ~~B~~

Date: 09/01/23

Species	Tallied DBH	Diameter of dead trees ≥6" DBH tallied at sample point	
Tulip poplar	16, <del>18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96, 98, 100</del> 30, 25	Percent canopy cover at sample point	9, 12, 14
Silver maple	<del>18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96, 98, 100</del> 52, 26		
Box elder	8	Percent herbaceous cover at 1/100th acre plot	50%
		Percent downed woody debris ≥6" diameter at 1/10th acre plot	95%
		Percent invasive plant cover at 1/100th acre plot	10%
		Number of shrubs per 1/100th acre plot	80%
			0
<b>Invasive Species:</b> <i>Microstegium vimineum</i> , <i>R. multiflora</i>			
<b>Common Understory Species (3'-20') layer:</b> Paw paw, box elder			
<b>Herbaceous Species (0-3' layer):</b> White snakeroot, blackgum, paw paw, <i>M. vimineum</i> , <i>L. japonica</i> , <i>R. multiflora</i> , bottle brush grass, canada wild rye, poison ivy.			
<b>Comments:</b>			

(1/100th acre plot = 11.78' radius circle)  
(1/10th acre plot = 37.24' radius circle)



**Forest Stand Delineation**  
**Field Sampling Data Sheet**

Property: Dickerson Power Plant

Prepared by: MF/KH

Stand: F

Sample Point: 25

Date: 9/6/23

Species	Tallied DBH	Diameter of dead trees ≥6" DBH tallied at sample point	
Box elder	14, 9, 21, 16, 10, 14, 13, 6, 9, 11	12, 18	Percent canopy cover at sample point
Tulip poplar	<del>14, 9, 21, 16, 10, 14, 13, 6, 9, 11</del> 24		
Black cherry	14		80
		Percent herbaceous cover at 1/100th acre plot	45
		Percent downed woody debris ≥6" diameter at 1/10th acre plot	0
		Percent invasive plant cover at 1/100th acre plot	40%
		Number of shrubs per 1/100th acre plot	10
<b>Invasive Species:</b> Wireberry, M. virginicum, autumn olive, garlic mustard			
<b>Common Understory Species (3'-20') layer:</b> box elder, paw paw, autumn olive			
<b>Herbaceous Species (0-3' layer):</b> Wireberry, M. virginicum, autumn olive, white snake root, paw paw, aster sp., yellow ironweed.			
<b>Comments:</b>			

(1/100th acre plot = 11.78' radius circle)

(1/10th acre plot = 37.24' radius circle)

**Forest Stand Delineation**  
**Field Sampling Data Sheet**

Property: Dickerson Power Plant

Prepared by: MF/KH

Stand: F

Sample Point: 26 ~~18~~

Date: 9/6/23

Species	Tallied DBH	Diameter of dead trees $\geq 6"$ DBH tallied at sample point	
Box elder	14, 13, 5		0
Black cherry	18, 13, 21, 15, 5, 9, 7, 6, 11, 13	Percent canopy cover at sample point	80%
Mulberry	4		
Sassafras	10	Percent herbaceous cover at 1/100th acre plot	45%
Eastern red cedar	6		
Tulip poplar	22	Percent downed woody debris $\geq 6"$ diameter at 1/10th acre plot	0
Ailanthus	17		
		Percent invasive plant cover at 1/100th acre plot	60%
		Number of shrubs per 1/100th acre plot	107 <del>510</del>

**Invasive Species:**

*Ailanthus altissima*, *M. vimineum*, wineberry, autumn olive, garlic mustard

**Common Understory Species (3'-20') layer:**

Mulberry, autumn olive, box elder, black cherry

**Herbaceous Species (0-3' layer):**

*M. vimineum*, wineberry, garlic mustard, autumn olive

**Comments:**

(1/100th acre plot = 11.78' radius circle)

(1/10th acre plot = 37.24' radius circle)

# **EXHIBIT 12**



**FOREST STAND SUMMARY**

Forest Stand:	G	<u>% Dominance By Species For Stand G</u>	
Acreage:	4.22	<b>Species</b>	<b># Tallied % Dominance</b>
Data Points/Stand:	2	Virginia Pine	18 67%
Average DBH:	8	Eastern Red Cedar	9 33%
Number of Trees/Acre:	370		
Number of Tree Species:	2		
Basal Area/Acre:	45		
Number of Dead Trees/Acre:	0		
Number of Shrubs per Acre:	150		
% Canopy Cover:	63	<b>Total</b>	<b>27 100%</b>
% Herbaceous Cover:	30		
% Downed Woody Material:	2		
% Exotic or Invasive Species:	18		

**FOREST STRUCTURE ANALYSIS**

(As an average per acre for the stand)

Stand Designation                      **G**    Structure Value    **8**

The following parameters comprise an average of data collected at each point for the stand indicated above. The parameters, when combined, give a general representation of the condition and value of the stand.

The total structure value is defined by:

- 15-21 Priority
- 7-14 Good
- 0-6 Poor

<u>Percent Canopy Closure</u>		<u>Size Class of Dominant Trees</u>	
70-100%	0	Greater than 20"	0
40-69%	2	6-19.9"	2
10-39%	0	3-5.9"	0
0-9%	0	Less than 3"	0
	<input type="checkbox"/>		<input type="checkbox"/>
<u>Number of Shrubs per Acre</u>		<u>Percent Herbaceous Cover</u>	
600 or more	0	75-100%	0
400-599	0	25-74%	2
200-399	0	5-24%	0
0-199	0	0-4%	0
	<input type="checkbox"/>		<input type="checkbox"/>
<u>Percent Woody Debris</u>		<u># of Tree Species &gt;=6"</u>	
15-100%	0	6 or more	0
5-14%	0	4-5	0
1-4%	1	2-3	1
Less than 1%	0	0-1	0
	<input type="checkbox"/>		<input type="checkbox"/>
<u># Standing Snags per Acre</u>			
30 or more	0		
20-29	0		
10-19	0		
0-9	0		

9

**Forest Stand Delineation**  
**Field Sampling Data Sheet**

Property: Dickerson Power Plant Prepared by: MF/DL

Stand: G Sample Point: 27 B Date: 09/01/23

Species	Tallied DBH	Diameter of dead trees ≥6" DBH tallied at sample point	
Virginia pine	16, 8, 6, 6, 6, 7, 9, 7, 7, 12		
Eastern red	3, 3, 16, 11,		
		Percent canopy cover at sample point	45%
		Percent herbaceous cover at 1/100th acre plot	20%
		Percent downed woody debris ≥6" diameter at 1/10th acre plot	2%
		Percent invasive plant cover at 1/100th acre plot	10%
		Number of shrubs per 1/100th acre plot	2

**Invasive Species:**  
Lespedeza, microstegium vimineum, autumn olive

**Common Understory Species (3'-20') layer:**  
Virginia pine, eastern red cedar, autumn olive

**Herbaceous Species (0-3' layer):**  
wild strawberry, M. vimineum, poisoning, v. creeper, grape, winged elm, pussy toad plantain

**Comments:**

(1/100th acre plot = 11.78' radius circle)  
(1/10th acre plot = 37.24' radius circle)

**Forest Stand Delineation**  
**Field Sampling Data Sheet**

Property: Dickerson Power Plant      Prepared by: MF/DL

Stand: G      Sample Point: Z8      Date: 09/01/23

Species	Tallied DBH	Diameter of dead trees ≥6" DBH tallied at sample point	
Virginia pine	10, 6, 7, 9, 7, 17, 4, 7		
Eastern red cedar	4, 4, 11, 11, 6		80%
		Percent herbaceous cover at 1/100th acre plot	40%
		Percent downed woody debris ≥6" diameter at 1/10th acre plot	2%
		Percent invasive plant cover at 1/100th acre plot	25%
		Number of shrubs per 1/100th acre plot	1

**Invasive Species:**

*M. vimineum*, wineberry, *T. barberry*, autumn olive, *L. japonica*

**Common Understory Species (3'-20') layer:**

Virginia pine, eastern red cedar

**Herbaceous Species (0-3' layer):**

*M. vimineum*, *T. barberry*, wineberry, *L. japonica*, white snakeroot

**Comments:**

(1/100th acre plot = 11.78' radius circle)  
(1/10th acre plot = 37.24' radius circle)

# **EXHIBIT 13**

**FOREST STAND SUMMARY**

Forest Stand:	H	<u>% Dominance By Species For Stand H</u>	
Acreage:	6.47	<b>Species</b>	<b># Tallied % Dominance</b>
Data Points/Stand:	3	Elm	8 30%
Average DBH:	13	Tulip Poplar	7 26%
Number of Trees/Acre:	235	Black Walnut	1 4%
Number of Tree Species:	6	Black Cherry	7 26%
Basal Area/Acre:	90	Boxelder	3 11%
Number of Dead Trees/Acre:	33	Silver maple	1 4%
Number of Shrubs per Acre:	733	<b>Total</b>	<b>27 100%</b>
% Canopy Cover:	48		
% Herbaceous Cover:	13		
% Downed Woody Material:	2		
% Exotic or Invasive Species:	30		

**FOREST STRUCTURE ANALYSIS**

(As an average per acre for the stand)

Stand Designation                      **H**    Structure Value    **15**

The following parameters comprise an average of data collected at each point for the stand indicated above. The parameters, when combined, give a general representation of the condition and value of the stand.

The total structure value is defined by:

15-21 Priority

7-14 Good

0-6 Poor

Percent Canopy Closure

70-100%	0
40-69%	2
10-39%	0
0-9%	0
	<input type="checkbox"/>

Number of Shrubs per Acre

600 or more	3
400-599	0
200-399	0
0-199	0
	<input type="checkbox"/>

Percent Woody Debris

15-100%	0
5-14%	0
1-4%	1
Less than 1%	0
	<input type="checkbox"/>

# Standing Snags per Acre

30 or more	3
20-29	0
10-19	0
0-9	0
	<input type="checkbox"/>

Size Class of Dominant Trees

Greater than 20"	0
6-19.9"	2
3-5.9"	0
Less than 3"	0
	<input type="checkbox"/>

Percent Herbaceous Cover

75-100%	0
25-74%	0
5-24%	1
0-4%	0
	<input type="checkbox"/>

# of Tree Species >=6"

6 or more	3
4-5	0
2-3	0
0-1	0
	<input type="checkbox"/>

H

**Forest Stand Delineation**  
**Field Sampling Data Sheet**

Property: Dickerson Power PlantPrepared by: MF/DLStand: HSample Point: 29 ~~#~~Date: 09/01/23

Species	Tallied DBH	Diameter of dead trees $\geq 6"$ DBH tallied at sample point	7
Elm	5, 9, 6, 3, 8		
Tulip poplar	12, 17, 19, 12, 19		
Black walnut	18	Percent canopy cover at sample point	
		Percent herbaceous cover at 1/100th acre plot	
		Percent downed woody debris $\geq 6"$ diameter at 1/10th acre plot	
		Percent invasive plant cover at 1/100th acre plot	
		Number of shrubs per 1/100th acre plot	
<b>Invasive Species:</b> <u>Autumn olive, L. japonica</u>			
<b>Common Understory Species (3'-20') layer:</b> <u>Elm, autumn olive, white ash</u>			
<b>Herbaceous Species (0-3' layer):</b> <u>V. creeper, white snakeroot, autumn olive, poison ivy, ebony spleenwort</u>			
<b>Comments:</b>			

(1/100th acre plot = 11.78' radius circle)

(1/10th acre plot = 37.24' radius circle)



**Forest Stand Delineation**  
**Field Sampling Data Sheet**

Property: Dickerson Power Plant

Prepared by: MF/DL

Stand: H

Sample Point: ~~29~~ <sup>30</sup> ~~30~~

Date: 09/01/23

Species	Tallied DBH	Diameter of dead trees $\geq 6"$ DBH tallied at sample point	6
Box elder	9, 8, 8	Percent canopy cover at sample point	70%
Black cherry	10, 11		
Tulip poplar	23	Percent herbaceous cover at 1/100th acre plot	20%
Elm	8, 6		
		Percent downed woody debris $\geq 6"$ diameter at 1/10th acre plot	5%
		Percent invasive plant cover at 1/100th acre plot	30
		Number of shrubs per 1/100th acre plot	>10

**Invasive Species:**

*Autumn olive, garlic mustard, L. japonica*

**Common Understory Species (3'-20') layer:**

*Box elder, elm, autumn olive.*

**Herbaceous Species (0-3' layer):**

*Autumn olive, garlic mustard, white snakeroot, box elder, V. creepers, poison ivy, black gum*

**Comments:**

(1/100th acre plot = 11.78' radius circle)  
(1/10th acre plot = 37.24' radius circle)

**Forest Stand Delineation**  
**Field Sampling Data Sheet**

Property: Dickerson Power Plant

Prepared by: MF/KH

Stand: H

Sample Point: 31

Date: 9/6/23

Species	Tallied DBH	Diameter of dead trees $\geq 6"$ DBH tallied at sample point	
Tulip poplar	24		20/16
<del>Box elder</del>		Percent canopy cover at sample point	75%
Elm	8,		
Silver maple	16	Percent herbaceous cover at 1/100th acre plot	20%
Black cherry	23, 16, 13, 11, 17		
		Percent downed woody debris $\geq 6"$ diameter at 1/10th acre plot	2%
		Percent invasive plant cover at 1/100th acre plot	60%
		Number of shrubs per 1/100th acre plot	>10
<b>Invasive Species:</b> <i>autumn olive, microstegium vimineum</i>			
<b>Common Understory Species (3'-20') layer:</b> <i>Box elder, autumn olive, elm</i>			
<b>Herbaceous Species (0-3' layer):</b> <i>autumn olive, microstegium</i>			
<b>Comments:</b>			

(1/100th acre plot = 11.78' radius circle)

(1/10th acre plot = 37.24' radius circle)



# **EXHIBIT 14**

**FOREST STAND SUMMARY**

Forest Stand:	I	<u>% Dominance By Species For Stand I</u>	
Acreage:	0.65	<b>Species</b>	<b># Tallied % Dominance</b>
Data Points/Stand:	2	Black Cherry	2 10%
Average DBH:	11	Sweet Cherry	2 10%
Number of Trees/Acre:	312	Eastern Red Cedar	6 30%
Number of Tree Species:	10	Elm	4 20%
Basal Area/Acre:	130	Tree of Heaven	1 5%
Number of Dead Trees/Acre:	331	Northern Red Oak	2 10%
Number of Shrubs per Acre:	250	Tulip Poplar	1 5%
% Canopy Cover:	60	Sassafras	2 10%
% Herbaceous Cover:	35	<b>Total</b>	<b>20 100%</b>
% Downed Woody Material:	7		
% Exotic or Invasive Species:	15		

**FOREST STRUCTURE ANALYSIS**

(As an average per acre for the stand)

Stand Designation                      I    Structure Value    **15**

The following parameters comprise an average of data collected at each point for the stand indicated above. The parameters, when combined, give a general representation of the condition and value of the stand.

The total structure value is defined by:

15-21 Priority

7-14 Good

0-6 Poor

Percent Canopy Closure

70-100%	0
40-69%	2
10-39%	0
0-9%	0

Number of Shrubs per Acre

600 or more	0
400-599	0
200-399	1
0-199	0

Percent Woody Debris

15-100%	0
5-14%	2
1-4%	0
Less than 1%	0

# Standing Snags per Acre

30 or more	3
20-29	0
10-19	0
0-9	0

Size Class of Dominant Trees

Greater than 20"	0
6-19.9"	2
3-5.9"	0
Less than 3"	0

Percent Herbaceous Cover

75-100%	0
25-74%	2
5-24%	0
0-4%	0

# of Tree Species >=6"

6 or more	3
4-5	0
2-3	0
0-1	0

I

**Forest Stand Delineation**  
**Field Sampling Data Sheet**

Property: DickersonPrepared by: DLStand: ISample Point: <sup>mm</sup> 32Date: 8/29/23

Species	Tallied DBH	Diameter of dead trees ≥6" DBH tallied at sample point	
black cherry	16, 13		2
sweet cherry	6, 5	Percent canopy cover at sample point	65
e. red cedar	13, 11, 9, 8		
elm	21, 15	Percent herbaceous cover at 1/100th acre plot	40
ailanthus	6		
		Percent downed woody debris ≥6" diameter at 1/10th acre plot	10
		Percent invasive plant cover at 1/100th acre plot	20
		Number of shrubs per 1/100th acre plot	2
<b>Invasive Species:</b> microstegium, <del>white snake root</del> ailanthus, garlic mustard wineberry			
<b>Common Understory Species (3'-20') layer:</b> paw paw, sweet cherry, e. red cedar			
<b>Herbaceous Species (0-3' layer):</b> microst., wineberry, garlic mustard, white snake root, VA creeper			
<b>Comments:</b>			

(1/100th acre plot = 11.78' radius circle)

(1/10th acre plot = 37.24' radius circle)

**Forest Stand Delineation**  
**Field Sampling Data Sheet**

Property: Brockerson Prepared by: DL

Stand: I Sample Point: ~~MM~~ 33 Date: 8/29/23

Species	Tallied DBH	Diameter of dead trees ≥6" DBH tallied at sample point	
h. red oak	21, 15	Percent canopy cover at sample point	3
elm	11, 9		
t. pop	19	Percent herbaceous cover at 1/100th acre plot	55
sassafras	10, 7		
black gum	4, 14, 8	Percent downed woody debris ≥6" diameter at 1/10th acre plot	30
e. red cedar	9, 10		
cottonwood	10	Percent invasive plant cover at 1/100th acre plot	10
black oak	15		
sugar maple	13	Number of shrubs per 1/100th acre plot	3

**Invasive Species:** microst., grapevine,

**Common Understory Species (3'-20') layer:**  
paw-paw, sass., b.gum

**Herbaceous Species (0-3' layer):**  
snake root, plus invasives, red maple

**Comments:**

(1/100th acre plot = 11.78' radius circle)

(1/10th acre plot = 37.24' radius circle)

# **EXHIBIT 15**

**FOREST STAND SUMMARY**

Forest Stand:	J	<u>% Dominance By Species For Stand J</u>	
Acreage:	3.72	<b>Species</b>	<b># Tallied % Dominance</b>
Data Points/Stand:	2	Black Gum	5 36%
Average DBH:	10	Red Maple	3 21%
Number of Trees/Acre:	295	Willow Oak	2 14%
Number of Tree Species:	6	Box Elder	1 7%
Basal Area/Acre:	70	Eastern Cottonwood	1 7%
Number of Dead Trees/Acre:	0	Eastern Red Cedar	2 14%
Number of Shrubs per Acre:	1000	<b>Total</b>	<b>14 100%</b>
% Canopy Cover:	84		
% Herbaceous Cover:	20		
% Downed Woody Material:	0		
% Exotic or Invasive Species:	40		

**FOREST STRUCTURE ANALYSIS**

(As an average per acre for the stand)

<u>Stand Designation</u>	<b>J</b>	<u>Structure Value</u>	<b>12</b>
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The following parameters comprise an average of data collected at each point for the stand indicated above. The parameters, when combined, give a general representation of the condition and value of the stand.

The total structure value is defined by:

15-21 Priority

7-14 Good

0-6 Poor

Percent Canopy Closure

70-100%	3
40-69%	0
10-39%	0
0-9%	0

Number of Shrubs per Acre

600 or more	3
400-599	0
200-399	0
0-199	0

Percent Woody Debris

15-100%	0
5-14%	0
1-4%	0
Less than 1%	0

# Standing Snags per Acre

30 or more	0
20-29	0
10-19	0
0-9	0

Size Class of Dominant Trees

Greater than 20"	0
6-19.9"	2
3-5.9"	0
Less than 3"	0

Percent Herbaceous Cover

75-100%	0
25-74%	0
5-24%	1
0-4%	0

# of Tree Species >=6"

6 or more	3
4-5	0
2-3	0
0-1	0

J

**Forest Stand Delineation**  
**Field Sampling Data Sheet**

Property: Dickerson Prepared by: HV/KH  
Stand: J Sample Point: 34 Date: 8/30/23

Species	Tallied DBH	Diameter of dead trees ≥6" DBH tallied at sample point	
<i>Nyssa sylvatica</i>	3, 7, 5, 8		—
<i>Acer rubrum</i>	15, 18, 7	Percent canopy cover at sample point	98
<i>Quercus phellos</i>	13, 12		
		Percent herbaceous cover at 1/100th acre plot	20
		Percent downed woody debris ≥6" diameter at 1/10th acre plot	0
		Percent invasive plant cover at 1/100th acre plot	50
		Number of shrubs per 1/100th acre plot	10+

**Invasive Species:**  
*Microstegium vimineum, Phragmites australis, Eleagnus umbellata*

**Common Understory Species (3'-20') layer:**  
*Q. phellos, P. australis, E. umbellata*

**Herbaceous Species (0-3' layer):**  
*M. vimineum, Toxicodendron radicans, Persicaria pensylvanica, Bidens frondosa, Lycopus europaeus*

**Comments:**

(1/100th acre plot = 11.78' radius circle)  
(1/10th acre plot = 37.24' radius circle)



**Forest Stand Delineation**  
**Field Sampling Data Sheet**

Property: Dickerson Prepared by: HK/KH  
Stand: J Sample Point: 35 Date: 8/30/23

Species	Tallied DBH	Diameter of dead trees $\geq 6"$ DBH tallied at sample point	
<i>Nyssa sylvatica</i>	5		—
<i>Acer negundo</i>	9	Percent canopy cover at sample point	70
<i>Populus deltoides</i>	24		
<i>Juniperus virginiana</i>	10, 9	Percent herbaceous cover at 1/100th acre plot	20
		Percent downed woody debris $\geq 6"$ diameter at 1/10th acre plot	0
		Percent invasive plant cover at 1/100th acre plot	30
		Number of shrubs per 1/100th acre plot	10+

**Invasive Species:**  
*Eleagnus umbellata*, *Phragmites australis*, *Lonicera japonica*, *Rosa multiflora*

**Common Understory Species (3'-20') layer:**  
*E. umbellata*, *P. australis*, *J. virginiana*

**Herbaceous Species (0-3' layer):**  
*F. pensylvanica*, *E. umbellata*, *Carex* spp., *Artemocissus quinquefolia*, *Toxicodendron radicans*, *L. japonica*, *A. negundo*, *R. multiflora*

**Comments:**  
large concrete posts present

(1/100th acre plot = 11.78' radius circle)  
(1/10th acre plot = 37.24' radius circle)

# **EXHIBIT 16**

**FOREST STAND SUMMARY**

Forest Stand:	K	<u>% Dominance By Species For Stand K</u>	
Acreage:	9.07	<b>Species</b>	<b># Tallied % Dominance</b>
Data Points/Stand:	3	White oak	5 13%
Average DBH:	12	Chestnut oak	13 33%
Number of Trees/Acre:	765	Northern red oak	4 10%
Number of Tree Species:	11	Hickory	7 18%
Basal Area/Acre:	147	Post oak	6 15%
Number of Dead Trees/Acre:	4	Black walnut	1 3%
Number of Shrubs per Acre:	1000	Tulip poplar	3 8%
% Canopy Cover:	91	Black cherry	1 3%
% Herbaceous Cover:	17	<b>Total</b>	<b>40 100%</b>
% Downed Woody Material:	5		
% Exotic or Invasive Species:	8		

**FOREST STRUCTURE ANALYSIS**

(As an average per acre for the stand)

Stand Designation                      **K**    Structure Value    **15**

The following parameters comprise an average of data collected at each point for the stand indicated above. The parameters, when combined, give a general representation of the condition and value of the stand.

The total structure value is defined by:

15-21 Priority

7-14 Good

0-6 Poor

Percent Canopy Closure

70-100%	3
40-69%	0
10-39%	0
0-9%	0

Number of Shrubs per Acre

600 or more	3
400-599	0
200-399	0
0-199	0

Percent Woody Debris

15-100%	0
5-14%	2
1-4%	1
Less than 1%	0

# Standing Snags per Acre

30 or more	0
20-29	0
10-19	0
0-9	0

Size Class of Dominant Trees

Greater than 20"	0
6-19.9"	2
3-5.9"	0
Less than 3"	0

Percent Herbaceous Cover

75-100%	0
25-74%	0
5-24%	1
0-4%	0

# of Tree Species >=6"

6 or more	3
4-5	0
2-3	0
0-1	0

K

WMA

**Forest Stand Delineation  
Field Sampling Data Sheet**

Property: Dickerson Power Plant Prepared by: HK

Stand: ~~HR08~~ K Sample Point: ~~35~~ 36 Date: 9/1/23

Species	Tallied DBH	Diameter of dead trees ≥6" DBH tallied at sample point	34, 20, 17'
white oak	20, 11, 16		
chestnut oak	15, 7, 4, 5	Percent canopy cover at sample point	90
northern red oak	15		
hickory sp.	7, 3	Percent herbaceous cover at 1/100th acre plot	15
post oak	5, 7, 4, 4, 15, <del>15</del> 45	Percent downed woody debris ≥6" diameter at 1/10th acre plot	7
		Percent invasive plant cover at 1/100th acre plot	1
		Number of shrubs per 1/100th acre plot	+ 10
<b>Invasive Species:</b>			
<b>Common Understory Species (3'-20') layer:</b> hickory, paw paw, black cherry			
<b>Herbaceous Species (0-3' layer):</b> black cherry, paw paw, white oak, false nettle, eastern red cedar, poa sp.			
<b>Comments:</b>			

(1/100th acre plot = 11.78' radius circle)

(1/10th acre plot = 37.24' radius circle)

K

W37

**Forest Stand Delineation**  
**Field Sampling Data Sheet**

Property: Dickerson Power Plant Prepared by: HKStand: ~~W37~~ K Sample Point: 37 Date: 9/1/23

Species	Tallied DBH	Diameter of dead trees ≥6" DBH tallied at sample point	
hickory	8, 6		none
chestnut oak	17, 14, 4, 19, 17, 9, 15, 9, 9	Percent canopy cover at sample point	98
northern red oak	16, 13		
tulip poplar	17, <del>8, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30</del> 30	Percent herbaceous cover at 1/100th acre plot	5
white oak	12, 22		
		Percent downed woody debris ≥6" diameter at 1/10th acre plot	7
		Percent invasive plant cover at 1/100th acre plot	3
		Number of shrubs per 1/100th acre plot	10+
<b>Invasive Species:</b> <u>autumn olive</u>			
<b>Common Understory Species (3'-20') layer:</b> <u>hickory, autumn olive</u>			
<b>Herbaceous Species (0-3' layer):</b> <u>paw paw, autumn olive, false nettle, VA creeper, chestnut oak</u>			
<b>Comments:</b>			

(1/100th acre plot = 11.78' radius circle)

(1/10th acre plot = 37.24' radius circle)

K

K

**Forest Stand Delineation**  
**Field Sampling Data Sheet**

Property: Dickerson Power Plant Prepared by: HK

Stand: ~~XXXX~~ K Sample Point: ~~42~~ 38 Date: 9/1/23

Species	Tallied DBH	Diameter of dead trees $\geq 6"$ DBH tallied at sample point	
northern red oak	2		n/a
black walnut	2	Percent canopy cover at sample point	85
hickory	9, 8, 12		
tulip poplar	21	Percent herbaceous cover at 1/100th acre plot	30
cherry	11		
elm	11, 9	Percent downed woody debris $\geq 6"$ diameter at 1/10th acre plot	
boxelder	7		
ailanthus	10	Percent invasive plant cover at 1/100th acre plot	20
		Number of shrubs per 1/100th acre plot	10
Invasive Species: <del>paw paw, walnut</del> autumn olive, jap. stiltgrass			
Common Understory Species (3'-20') layer: paw paw, walnut, autumn olive			
Herbaceous Species (0-3' layer): <sup>jap</sup> stiltgrass, false nettle, hickory			
Comments:			

(1/100th acre plot = 11.78' radius circle)

(1/10th acre plot = 37.24' radius circle)

# **EXHIBIT 17**



**FOREST STAND SUMMARY**

Forest Stand:	L	<u>% Dominance By Species For Stand L</u>	
Acreage:	3.04	<b>Species</b>	<b># Tallied    % Dominance</b>
Data Points/Stand:	2	Black walnut	4      24%
Average DBH:	16	Hackberry	6      35%
Number of Trees/Acre:	178	Boxelder maple	2      12%
Number of Tree Species:	7	Hickory	1      6%
Basal Area/Acre:	85	American sycamore	1      6%
Number of Dead Trees/Acre:	0	White ash	2      12%
Number of Shrubs per Acre:	1100	Elm	1      6%
% Canopy Cover:	90	<b>Total</b>	<b>17      100%</b>
% Herbaceous Cover:	75		
% Downed Woody Material:	6		
% Exotic or Invasive Species:	23		

**FOREST STRUCTURE ANALYSIS**

(As an average per acre for the stand)

<u>Stand Designation</u>	<b>L</b>	<u>Structure Value</u>	<b>13</b>
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The following parameters comprise an average of data collected at each point for the stand indicated above. The parameters, when combined, give a general representation of the condition and value of the stand.

The total structure value is defined by:

15-21 Priority

7-14 Good

0-6 Poor

<u>Percent Canopy Closure</u>		<u>Size Class of Dominant Trees</u>	
70-100%	3	Greater than 20"	0
40-69%	0	6-19.9"	2
10-39%	0	3-5.9"	0
0-9%	0	Less than 3"	0
	<input type="checkbox"/>		<input type="checkbox"/>
<u>Number of Shrubs per Acre</u>		<u>Percent Herbaceous Cover</u>	
600 or more	3	75-100%	0
400-599	0	25-74%	0
200-399	0	5-24%	0
0-199	0	0-4%	0
	<input type="checkbox"/>		
<u>Percent Woody Debris</u>		<u># of Tree Species &gt;=6"</u>	
15-100%	0	6 or more	3
5-14%	2	4-5	0
1-4%	0	2-3	0
Less than 1%	0	0-1	0
	<input type="checkbox"/>		<input type="checkbox"/>
<u># Standing Snags per Acre</u>			
30 or more	0		
20-29	0		
10-19	0		
0-9	0		

4/12 L

**Forest Stand Delineation**  
**Field Sampling Data Sheet**

Property: Dickerson Power Plant Prepared by: HK

Stand: ~~HK6~~ L Sample Point: 39 Date: 9/1/23

Species	Tallied DBH	Diameter of dead trees ≥6" DBH tallied at sample point	
black walnut	9, <del>8, 24</del> 24		n/a
hackberry	5, 17, 9, <del>24</del> 24	Percent canopy cover at sample point	90
box elder	5, 6		
		Percent herbaceous cover at 1/100th acre plot	65
		Percent downed woody debris ≥6" diameter at 1/10th acre plot	7
		Percent invasive plant cover at 1/100th acre plot	5
		Number of shrubs per 1/100th acre plot	15 <sup>+</sup>
<b>Invasive Species:</b> jap. stiltgrass, autumn olive			
<b>Common Understory Species (3'-20') layer:</b> paw paw, hackberry, autumn olive, boxelder			
<b>Herbaceous Species (0-3' layer):</b> jap. stiltgrass, VA creeper, autumn olive, garlic mustard, paw paw, false nettle, poison ivy, white snakeroot			
<b>Comments:</b>			

(1/100th acre plot = 11.78' radius circle)  
(1/10th acre plot = 37.24' radius circle)

**Forest Stand Delineation**  
**Field Sampling Data Sheet**

Property: Dickerson Power Plant

Prepared by: MF/KH

Stand: L

Sample Point: 40

Date: 9/6/23

Species	Tallied DBH	Diameter of dead trees $\geq 6"$ DBH tallied at sample point	
Hackberry	<del>6, 26</del> 26	Percent canopy cover at sample point	90%
Black walnut	<del>27, 27</del> 27, 27		
Hickory	7	Percent herbaceous cover at 1/100th acre plot	85%
Sycamore	<del>28</del> 28		
White ash	15, 17	Percent downed woody debris $\geq 6"$ diameter at 1/10th acre plot	5%
Elm	10		
		Percent invasive plant cover at 1/100th acre plot	40%
		Number of shrubs per 1/100th acre plot	5
<b>Invasive Species:</b> <u>M. vimineum, garlic mustard, autumn olive, wineberry</u>			
<b>Common Understory Species (3'-20') layer:</b> <u>paw paw, hickory, autumn olive</u>			
<b>Herbaceous Species (0-3' layer):</b> <u>M. vimineum, garlic mustard, wineberry, autumn olive, white shakeroot, paw paw</u>			
<b>Comments:</b>			

(1/100th acre plot = 11.78' radius circle)

(1/10th acre plot = 37.24' radius circle)

# **EXHIBIT 18**

SPECIMEN TREE TABLE

Tree Tag #	DBH (Inches)	Common Name	Scientific Name	Condition Rating	Condition/Comments
3	32	oak, northern red	<i>Quercus rubra</i>	Fair	Vines
4	33	tuliptree	<i>Liriodendron tulipifera</i>	Fair	Narrow Crown, Large DW (3"+)
5A	36	oak, northern red	<i>Quercus rubra</i>	Fair	Full crown, Compacted Soils, Co-dominant Stems, Small Dead Wood, Broken limbs, Vines
6	34	oak, pin	<i>Quercus palustris</i>	Fair	One Sided, Large DW (3"+), Broken Limbs
7	30	oak, pin	<i>Quercus palustris</i>	Good	Full Crown, Small DW (1-2")
8	36	oak, northern red	<i>Quercus rubra</i>	Good	Full Crown, Basal Decay, Small DW (1-2")
9	35	oak, northern red	<i>Quercus rubra</i>	Fair	Large DW (3"+), Small DW (1-2"), Broken Limbs
11	39	oak, pin	<i>Quercus palustris</i>	Fair	Narrow Crown, Large DW (3"+), Broken Limbs, Branch Decay
12	43	oak, pin	<i>Quercus palustris</i>	Fair	Full Crown, Large DW (3"+), Small DW (1-2"), Broken Limbs
12A	30	maple, silver	<i>Acer saccharinum</i>	Good	Full crown, Large Dead Wood, Small Dead Wood
14A	31	hackberry, common	<i>Celtis occidentalis</i>	Fair	Surface Roots, Large Dead Wood, Small Dead Wood, Broken Limbs
15A	31	oak, southern red	<i>Quercus falcata</i>	Good	Narrow Crown, Small Dead Wood, Broken Limbs, Vines
17	32	tuliptree	<i>Liriodendron tulipifera</i>	Fair	Full Crown, Co-Dominant Stems, Vines
20A	39	hackberry, common	<i>Celtis occidentalis</i>	Poor	Large DW (3"+), Small DW (1-2"), Vines, Hardware
21A	40	hackberry, common	<i>Celtis occidentalis</i>	Poor	Included Bark/Weak Union, Co-Dominant Stems, Large DW (3"+), Small DW (1-2"), Broken Limbs, Vines
22	31	oak, southern red	<i>Quercus falcata</i>	Good	Full Crown, Large DW (3"+), Broken Limbs, Vines
25A	36	tuliptree	<i>Liriodendron tulipifera</i>	Fair	One Sided, Small DW (1-2"), Hardware
36	34	tuliptree	<i>Liriodendron tulipifera</i>	Fair	Trunk Decay, Included Bark/Weak Union, Co-Dominant Stems, Vines
40	46	tuliptree	<i>Liriodendron tulipifera</i>	Good	Full Crown, Large DW (3"+)
42	33	tuliptree	<i>Liriodendron tulipifera</i>	Fair	Full Crown, Included Bark/Weak Union, Co-Dominant Stems, Vines
44	30	tuliptree	<i>Liriodendron tulipifera</i>	Good	Full Crown
49	39	oak, northern red	<i>Quercus rubra</i>	Fair	Large DW (3"+), Small DW (1-2")
51	38	tuliptree	<i>Liriodendron tulipifera</i>	Good	Full Crown
53	33	tuliptree	<i>Liriodendron tulipifera</i>	Fair	Full Crown, Large DW (3"+), Small DW (1-2"), Broken Limbs, Vines

## Tree Protection Action Key

Tree Tag #	DBH (Inches)	Common Name	Scientific Name	Condition Rating	Condition/Comments
63	30	oak, pin	<i>Quercus palustris</i>	Fair	Full Crown, Trunk Decay, Large DW (3"+), Small DW (1-2")
68	39	tuliptree	<i>Liriodendron tulipifera</i>	Fair	Full Crown, Included Bark/Weak Union, Co-Dominant Stems, Large DW (3"+)
70	31	tuliptree	<i>Liriodendron tulipifera</i>	Good	Large DW (3"+)
76	32	tuliptree	<i>Liriodendron tulipifera</i>	Good	Full Crown, Large DW (3"+), Broken Limbs
77	39	tuliptree	<i>Liriodendron tulipifera</i>	Good	Full Crown, Large DW (3"+), Broken Limbs
79	30	tuliptree	<i>Liriodendron tulipifera</i>	Good	Full Crown
81	37	oak, southern red	<i>Quercus falcata</i>	Fair	Full Crown, Large DW (3"+)
83	45	tuliptree	<i>Liriodendron tulipifera</i>	Fair	Included Bark/Weak Union, Co-Dominant Stems, Large DW (3"+), Small DW (1-2")
84	34	oak, northern red	<i>Quercus rubra</i>	Fair	Large DW (3"+), Small DW (1-2")

## SPECIMEN TREE TABLE

Tree Tag #	DBH (Inches)	Common Name	Scientific Name	Condition Rating	Condition/Comments
90*	34	tuliptree	<i>Liriodendron tulipifera</i>	Good	Full Crown, Large DW (3"+), Small DW (1-2")
95	32	tuliptree	<i>Liriodendron tulipifera</i>	Good	Large DW (3"+), Vines
98	32	oak, southern red	<i>Quercus falcata</i>	Good	Full Crown, Large DW (3"+), Vines
99*	39	tuliptree	<i>Liriodendron tulipifera</i>	Good	Full Crown, Large DW (3"+), Small DW (1-2"), Broken Limbs, Vines
100	34	tuliptree	<i>Liriodendron tulipifera</i>	Fair	Full Crown, Large DW (3"+), Broken Limbs
102*	30	tuliptree	<i>Liriodendron tulipifera</i>	Good	Full Crown
105*	30	sycamore, American	<i>Platanus occidentalis</i>	Good	Full Crown, Large DW (3"+), Small DW (1-2")
114	44	tuliptree	<i>Liriodendron tulipifera</i>	Fair	Included Bark/Weak Union, Co-Dominant Stems, Large DW (3"+)
115	44	tuliptree	<i>Liriodendron tulipifera</i>	Good	Full Crown, Large DW (3"+), Broken Limbs
119	30	tuliptree	<i>Liriodendron tulipifera</i>	Good	Full Crown, Small DW (1-2"), Vines
120	34	tuliptree	<i>Liriodendron tulipifera</i>	Fair	Co-Dominant Stems
125	31	tuliptree	<i>Liriodendron tulipifera</i>	Good	Full Crown
127	34	tuliptree	<i>Liriodendron tulipifera</i>	Fair	Full Crown, Small DW (1-2"), Vines
132	40	oak, northern red	<i>Quercus rubra</i>	Fair	Large DW (3"+), Small DW (1-2"), Broken Limbs, Vines
133	34	oak, northern red	<i>Quercus rubra</i>	Good	Full Crown, Small DW (1-2")
135	34	oak, northern red	<i>Quercus rubra</i>	Poor	Large DW (3"+), Small DW (1-2"), Vines
136	36	tuliptree	<i>Liriodendron tulipifera</i>	Fair	Included Bark/Weak Union, Co-Dominant Stems, Large DW (3"+), Vines
137	33	tuliptree	<i>Liriodendron tulipifera</i>	Fair	Full Crown, Small DW (1-2")
138	32	tuliptree	<i>Liriodendron tulipifera</i>	Fair	One Sided, Small DW (1-2")
140	34	tuliptree	<i>Liriodendron tulipifera</i>	Fair	Full Crown, Large DW (3"+)



Tree Tag #	DBH (Inches)	Common Name	Scientific Name	Condition Rating	Condition/Comments
143	32	tuliptree	<i>Liriodendron tulipifera</i>	Fair	Full Crown, Small DW (1-2")
144	35	tuliptree	<i>Liriodendron tulipifera</i>	Fair	Full Crown, Included Bark/Weak Union, Co-Dominant Stems, Small DW (1-2")
149	33	tuliptree	<i>Liriodendron tulipifera</i>	Fair	Narrow Crown, Co-Dominant Stems, Broken Limbs
150	35	tuliptree	<i>Liriodendron tulipifera</i>	Fair	Narrow Crown, One Sided, Co-Dominant Stems, Broken Limbs, Vines
151	38	tuliptree	<i>Liriodendron tulipifera</i>	Fair	Narrow Crown, One Sided, Co-Dominant Stems, Large DW (3"+), Broken Limbs, Vines
152	34	tuliptree	<i>Liriodendron tulipifera</i>	Poor	Narrow Crown, One Sided, Suppressed, Co-Dominant Stems, Large DW (3"+), Broken Limbs, Vines
153	36	tuliptree	<i>Liriodendron tulipifera</i>	Fair	Full Crown, Mechanical Damage, Large DW (3"+), Broken Limbs
154	34	tuliptree	<i>Liriodendron tulipifera</i>	Fair	Basal Decay, Included Bark/Weak Union, Co-Dominant Stems
157	34	tuliptree	<i>Liriodendron tulipifera</i>	Good	Full Crown, Large DW (3"+), Small DW (1-2")
160	30	tuliptree	<i>Liriodendron tulipifera</i>	Good	Full Crown
162	32	tuliptree	<i>Liriodendron tulipifera</i>	Fair	Full Crown, Included Bark/Weak Union, Co-Dominant Stems, Vines
165	31	maple, silver	<i>Acer saccharinum</i>	Fair	Full Crown, Co-Dominant Stems, Vines
168	30	cherry, black	<i>Prunus serotina</i>	Poor	Trunk Decay, Co-Dominant Stems, Large DW (3"+), Branch Decay
169	36	maple, red	<i>Acer rubrum</i>	Fair	Included Bark/Weak Union, Co-Dominant Stems, Small DW (1-2"), Vines
170	36	tuliptree	<i>Liriodendron tulipifera</i>	Fair	Full Crown, Large DW (3"+), Small DW (1-2"), Vines
173	34	tuliptree	<i>Liriodendron tulipifera</i>	Fair	Full Crown, Large DW (3"+), Broken Limbs
175	31	tuliptree	<i>Liriodendron tulipifera</i>	Fair	Included Bark/Weak Union, Co-Dominant Stems, Broken Limbs

## SPECIMEN TREE TABLE

Tree Tag #	DBH (Inches)	Common Name	Scientific Name	Condition Rating	Condition/Comments
176	31	tuliptree	<i>Liriodendron tulipifera</i>	Fair	Suppressed, Included Bark/Weak Union, Co-Dominant Stems, Broken Limbs
178	37	tuliptree	<i>Liriodendron tulipifera</i>	Good	Full Crown
180	32	tuliptree	<i>Liriodendron tulipifera</i>	Fair	One Sided, Large DW (3"+)
182	38	tuliptree	<i>Liriodendron tulipifera</i>	Poor	One Sided, Included Bark/Weak Union, Co-Dominant Stems
190	33	tuliptree	<i>Liriodendron tulipifera</i>	Good	Full Crown, Large DW (3"+)



## Tree Protection Action Key

Tree Tag #	DBH (Inches)	Common Name	Scientific Name	Condition Rating	Condition/Comments
191	30	tuliptree	<i>Liriodendron tulipifera</i>	Fair	Full Crown, Large DW (3"+), Small DW (1-2")
198	53	tuliptree	<i>Liriodendron tulipifera</i>	Good	Full Crown, Large DW (3"+), Broken Limbs
199	35	tuliptree	<i>Liriodendron tulipifera</i>	Fair	Suppressed, Large DW (3"+), Broken Limbs
301	30	tuliptree	<i>Liriodendron tulipifera</i>	Fair	Full Crown, Large DW (3"+), Broken Limbs
302	44	tuliptree	<i>Liriodendron tulipifera</i>	Fair	Full Crown, Large DW (3"+), Small DW (1-2"), Broken Limbs
303	31	tuliptree	<i>Liriodendron tulipifera</i>	Good	Full Crown, Large DW (3"+), Small DW (1-2"), Broken Limbs
304	38	tuliptree	<i>Liriodendron tulipifera</i>	Good	Full Crown, Large DW (3"+), Small DW (1-2"), Broken Limbs
307	30	tuliptree	<i>Liriodendron tulipifera</i>	Good	Full Crown, Large DW (3"+)
313	32	sycamore, American	<i>Platanus occidentalis</i>	Good	Full Crown, Broken Limbs, Vines
314	45	tuliptree	<i>Liriodendron tulipifera</i>	Fair	Full Crown, Large DW (3"+), Broken Limbs, Branch Decay
316	32	cherry, black	<i>Prunus serotina</i>	Poor	Basal Decay, Large DW (3"+), Broken Limbs
317	32	cherry, black	<i>Prunus serotina</i>	Fair	Large DW (3"+), Small DW (1-2"), Broken Limbs, Vines
318	42	cherry, black	<i>Prunus serotina</i>	Fair	Trunk Decay, Included Bark/Weak Union, Co-Dominant Stems, Mechanical Damage, Large DW (3"+), Small DW (1-2"), Broken Limbs, Vines
319	33	oak, northern red	<i>Quercus rubra</i>	Fair	One Sided, Vines
320	41	oak, northern red	<i>Quercus rubra</i>	Good	Full Crown, Large DW (3"+), Small DW (1-2")
322	36	oak, northern red	<i>Quercus rubra</i>	Fair	Full Crown, Large DW (3"+), Small DW (1-2"), Vines
331	49	tuliptree	<i>Liriodendron tulipifera</i>	Poor	Trunk Decay, Branch Decay
332	32	sycamore, American	<i>Platanus occidentalis</i>	Good	Full Crown, Vines
334	31	tuliptree	<i>Liriodendron tulipifera</i>	Fair	Full Crown, Vines
336	45	tuliptree	<i>Liriodendron tulipifera</i>	Fair	Full Crown, Vines
337	33	tuliptree	<i>Liriodendron tulipifera</i>	Fair	Full Crown, Broken Limbs, Vines
338	30	tuliptree	<i>Liriodendron tulipifera</i>	Good	Full Crown, Broken Limbs, Vines
339	34	tuliptree	<i>Liriodendron tulipifera</i>	Fair	Full Crown, Co-Dominant Stems
343	30	tuliptree	<i>Liriodendron tulipifera</i>	Fair	Full Crown, Large DW (3"+), Small DW (1-2"), Vines
347	31	oak, northern red	<i>Quercus rubra</i>	Fair	One Sided, Vines
351	39	elm, American	<i>Ulmus americana</i>	Good	Full Crown, Large DW (3"+), Broken Limbs, Vines
354	32	oak, northern red	<i>Quercus rubra</i>	Fair	Full Crown, Large DW (3"+), Vines
355	31	tuliptree	<i>Liriodendron tulipifera</i>	Fair	Narrow Crown, One Sided, Vines

## Tree Protection Action Key

Tree Tag #	DBH (Inches)	Common Name	Scientific Name	Condition Rating	Condition/Comments
359	32	tuliptree	<i>Liriodendron tulipifera</i>	Critical	Narrow Crown, Trunk Decay, Included Bark/Weak Union, Co-Dominant Stems, Vines
363	32	oak, white	<i>Quercus alba</i>	Fair	Narrow Crown, Large DW (3"+), Small DW (1-2")
364	33	oak, northern red	<i>Quercus rubra</i>	Fair	One Sided, Small DW (1-2")
365	32	oak, white	<i>Quercus alba</i>	Fair	Narrow Crown, Small DW (1-2"), Vines
366	33	sycamore, American	<i>Platanus occidentalis</i>	Good	Full Crown, Broken Limbs, Vines
368	32	oak, northern red	<i>Quercus rubra</i>	Fair	Large DW (3"+), Small DW (1-2"), Stressed

## SPECIMEN TREE TABLE

Tree Tag #	DBH (Inches)	Common Name	Scientific Name	Condition Rating	Condition/Comments
370	33	tuliptree	<i>Liriodendron tulipifera</i>	Critical	Trunk Decay, Vines
372	32	oak, northern red	<i>Quercus rubra</i>	Fair	Included Bark/Weak Union, Co-Dominant Stems, Large DW (3"+), Small DW (1-2")
373	45	tuliptree	<i>Liriodendron tulipifera</i>	Good	Full Crown, Small DW (1-2")
382	31	oak, chestnut	<i>Quercus montana</i>	Critical	Excessive Lean, Basal Decay, Trunk Decay
384	31	ash spp.	<i>Fraxinus spp.</i>	Poor	One Sided, Large DW (3"+), Small DW (1-2"), Serious Decline, Insect/Disease Problem
385	52	tuliptree	<i>Liriodendron tulipifera</i>	Poor	Root Damage/Decay, Basal Decay
407	31	elm, American	<i>Ulmus americana</i>	Fair	Surface Roots, Girdling Roots, Included Bark/Weak Union, Co-Dominant Stems
408	30	tuliptree	<i>Liriodendron tulipifera</i>	Fair	Full Crown, Large DW (3"+), Small DW (1-2"), Broken Limbs
412	31	cherry, black	<i>Prunus serotina</i>	Fair	Narrow Crown, Large DW (3"+), Broken Limbs, Vines
415	31	sycamore, American	<i>Platanus occidentalis</i>	Good	Full Crown, Vines
418*	34	oak, southern red	<i>Quercus falcata</i>	Fair	One Sided, Large DW (3"+), Small DW (1-2"), Vines
422	32	cherry, black	<i>Prunus serotina</i>	Fair	Narrow Crown, Large DW (3"+), Small DW (1-2"), Vines
425*	54	maple, silver	<i>Acer saccharinum</i>	Fair	Full Crown, Included Bark/Weak Union, Co-Dominant Stems, Small DW (1-2"), Broken Limbs
430	31	maple, silver	<i>Acer saccharinum</i>	Fair	Full Crown, Large DW (3"+), Small DW (1-2"), Insect/Disease Problem, Vines
436	45	tuliptree	<i>Liriodendron tulipifera</i>	Good	Full Crown, Small DW (1-2"), Broken Limbs
437	47	tuliptree	<i>Liriodendron tulipifera</i>	Fair	Mechanical Damage, Small DW (1-2"), Broken Limbs

## Tree Protection Action Key

Tree Tag #	DBH (Inches)	Common Name	Scientific Name	Condition Rating	Condition/Comments
438	47	tuliptree	<i>Liriodendron tulipifera</i>	Fair	Included Bark/Weak Union, Co-Dominant Stems, Small DW (1-2"), Broken Limbs
439	37	tuliptree	<i>Liriodendron tulipifera</i>	Good	Full Crown, Small DW (1-2"), Broken Limbs
440	31	tuliptree	<i>Liriodendron tulipifera</i>	Good	Full Crown, Girdling Roots, Small DW (1-2")
441	36	tuliptree	<i>Liriodendron tulipifera</i>	Good	Full Crown, Small DW (1-2")
444	38	tuliptree	<i>Liriodendron tulipifera</i>	Good	Full crown, Small Dead Wood, Co-dominant Stems, Broken Limbs
445	31	tuliptree	<i>Liriodendron tulipifera</i>	Fair	Full Crown, Co-Dominant Stems, Small DW (1-2"), Broken Limbs
446	32	tuliptree	<i>Liriodendron tulipifera</i>	Poor	Narrow crown, one sided, large DW, small DW, broken limbs
447	34	tuliptree	<i>Liriodendron tulipifera</i>	Good	Full crown, small DW
448	31	tuliptree	<i>Liriodendron tulipifera</i>	Good	Minor girdling roots, slightly one-sided, small DW
451	41	tuliptree	<i>Liriodendron tulipifera</i>	Fair	Codominant leads, small DW, vines
454	37	tuliptree	<i>Liriodendron tulipifera</i>	Fair	Full crown, SDW, vines
456	43	oak, northern red	<i>Quercus rubra</i>	Good	Full Crown, Small DW (1-2"), Broken Limbs
457	34	tuliptree	<i>Liriodendron tulipifera</i>	Fair	Narrow Crown, One Sided, Small DW (1-2")
460	44	oak, northern red	<i>Quercus rubra</i>	Good	Full Crown, Small DW (1-2")
462	37	oak, northern red	<i>Quercus rubra</i>	Poor	One Sided, Low Vigor, Serious Decline, Broken Limbs, Branch Decay, Vines
463	33	maple, silver	<i>Acer saccharinum</i>	Poor	Narrow Crown, Excessive Lean, Co-Dominant Stems, Large DW (3"+), Serious Decline, Branch Decay
464	34	maple, silver	<i>Acer saccharinum</i>	Fair	Full Crown, Excessive Lean, Basal Decay, Trunk Decay, Co-Dominant Stems
465	33	oak, northern red	<i>Quercus rubra</i>	Good	Full Crown, Small DW (1-2")
469*	54	oak, scarlet	<i>Quercus coccinea</i>	Fair	Full Crown, Co-Dominant Stems, Small DW (1-2"), Broken Limbs
470*	38	maple, silver	<i>Acer saccharinum</i>	Poor	Excessive Lean, Co-Dominant Stems, Large DW (3"+), Small DW (1-2"), Vines
471*	31	oak, scarlet	<i>Quercus coccinea</i>	Fair	Full Crown, Small DW (1-2"), Vines
475*	37	sycamore, American	<i>Platanus occidentalis</i>	Good	Full Crown, Small DW (1-2")
477*	42	sycamore, American	<i>Platanus occidentalis</i>	Fair	Excessive Lean, Co-Dominant Stems, Small DW (1-2"), Low Vigor

## Tree Protection Action Key

Tree Tag #	DBH (Inches)	Common Name	Scientific Name	Condition Rating	Condition/Comments
478	31	sycamore, American	<i>Platanus occidentalis</i>	Poor	Narrow Crown, Stressed, Serious Decline, Vines
479	32	maple, silver	<i>Acer saccharinum</i>	Poor	Full Crown, Basal Decay, Trunk Decay, Small DW (1-2"), Serious Decline, Vines
482	33	sycamore, American	<i>Platanus occidentalis</i>	Good	Full Crown, Small DW (1-2")
483	42	sycamore, American	<i>Platanus occidentalis</i>	Good	Full Crown, Large DW (3"+)
484	41	maple, silver	<i>Acer saccharinum</i>	Poor	Narrow Crown, Basal Decay, Co-Dominant Stems, Large DW (3"+), Small DW (1-2"), Low Vigor
485	31	oak, southern red	<i>Quercus falcata</i>	Good	Minor vine cover, Full Crown, Large DW (3"+)
487	30	cottonwood, eastern	<i>Populus deltoides</i>	Fair	3" girdle root, Full Crown, Girdling Roots
490	41	tuliptree	<i>Liriodendron tulipifera</i>	Good	Full Crown, Small DW (1-2")
491	32	sycamore, American	<i>Platanus occidentalis</i>	Poor	Heavy grape vine cover, Full Crown, Large DW (3"+), Small DW (1-2"), Vines
492	33	sycamore, American	<i>Platanus occidentalis</i>	Poor	Full Crown, One Sided, Excessive Lean, Small DW (1-2"), Broken Limbs
497	31	oak, white	<i>Quercus alba</i>	Fair	Full Crown, Large DW (3"+), Small DW (1-2"), Vines
638*	31	Tulip tree	<i>Liriodendron tulipifera</i>	Good	
644	36	Northern red oak	<i>Quercus rubra</i>	Fair	Large dead wood, broken limbs, vines
648	32	Tulip tree	<i>Liriodendron tulipifera</i>	Fair	
652	45	Am sycamore	<i>Platanus occidentalis</i>	Good	Broken limbs
659	34	Silver maple	<i>Acer saccharinum</i>	Good	LDW, SDW
660	30	Pin oak	<i>Quercus palustris</i>	Good	Vines, SDW
663	36	Black cherry	<i>Prunus serotina</i>	Poor	Large broken limb, vines
664	32	Hickory	<i>Carya sp.</i>	Good	
665	30	Northern red oak	<i>Quercus rubra</i>	Fair	LDW, Vines
668	36	White oak	<i>Quercus alba</i>	Good	Codom stems, LDW
671	32	Chestnut oak	<i>Quercus montana</i>	Fair	Codom stems, LDW
679	33	Tulip tree	<i>Liriodendron tulipifera</i>	Good	
681	30	Pin oak	<i>Quercus palustris</i>	Poor	LDW, Serious decline
682	39	Northern red oak	<i>Quercus rubra</i>	Fair	Codom stems, included bark
684	57	Am sycamore	<i>Platanus occidentalis</i>	Fair	Codom stems
685	40	Am sycamore	<i>Platanus occidentalis</i>	Good	Vines
687	31	Tulip tree	<i>Liriodendron tulipifera</i>	Fair	Vines, LDW
694	34	Northern red oak	<i>Quercus rubra</i>	Fair	One sided, LDW
698	39	Northern red oak	<i>Quercus rubra</i>	Poor	Basal cavity, excessive lean
700	36	White oak	<i>Quercus alba</i>	Good	LDW, one sided

## SPECIMEN TREE TABLE

Tree Tag #	DBH (Inches)	Common Name	Scientific Name	Condition Rating	Condition/Comments
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## Tree Protection Action Key

Tree Tag #	DBH (Inches)	Common Name	Scientific Name	Condition Rating	Condition/Comments
702*	42	oak, willow	<i>Quercus phellos</i>	Poor	Trunk Decay, Included Bark/Weak Union, Co-Dominant Stems, Large DW (3"+), Small DW (1-2"), Serious Decline, Broken Limbs, Vines
703	47	maple, silver	<i>Acer saccharinum</i>	Poor	Co-Dominant Stems, Large DW (3"+), Small DW (1-2"), Broken Limbs, Hardware
704	61	sycamore, American	<i>Platanus occidentalis</i>	Poor	Trunk Decay, Included Bark/Weak Union, Co-Dominant Stems, Large DW (3"+), Small DW (1-2"), Serious Decline, Broken Limbs, Hardware
707	34	maple, silver	<i>Acer saccharinum</i>	Fair	Co-Dominant Stems
708	37	maple, silver	<i>Acer saccharinum</i>	Good	Basal Decay, Co-Dominant Stems, Small DW (1-2"), Broken Limbs
713	33	maple, silver	<i>Acer saccharinum</i>	Fair	Co-Dominant Stems, Large DW (3"+), Small DW (1-2"), Broken Limbs
714	46	maple, silver	<i>Acer saccharinum</i>	Fair	Included Bark/Weak Union, Co-Dominant Stems, Small DW (1-2")
715	52	maple, silver	<i>Acer saccharinum</i>	Poor	One Sided, Trunk Decay, Included Bark/Weak Union, Co-Dominant Stems, Large DW (3"+), Small DW (1-2"), Serious Decline, Broken Limbs
717	30	tuliptree	<i>Liriodendron tulipifera</i>	Good	Co-Dominant Stems, Small DW (1-2")
723	31	tuliptree	<i>Liriodendron tulipifera</i>	Good	Large DW (3"+), Small DW (1-2")
729	34	maple, silver	<i>Acer saccharinum</i>	Fair	Included Bark/Weak Union, Co-Dominant Stems, Large DW (3"+)
730	37	maple, silver	<i>Acer saccharinum</i>	Fair	Co-Dominant Stems, Large DW (3"+), Small DW (1-2")
739	42	maple, silver	<i>Acer saccharinum</i>	Fair	Surface Roots, Trunk Decay, Included Bark/Weak Union, Co-Dominant Stems, Small DW (1-2")
744	45	oak, post	<i>Quercus stellata</i>	Fair	One Sided, Included Bark/Weak Union, Co-Dominant Stems, Large DW (3"+), Small DW (1-2")
745	31	oak, chestnut	<i>Quercus montana</i>	Fair	Included Bark/Weak Union, Co-Dominant Stems, Large DW (3"+), Small DW (1-2")
746	32	oak, chestnut	<i>Quercus montana</i>	Good	Large DW (3"+), Small DW (1-2"), Broken Limbs
747	30	oak, southern red	<i>Quercus falcata</i>	Good	Compacted Soils, Surface Roots
752	38	oak, chestnut	<i>Quercus montana</i>	Fair	Narrow Crown, Compacted Soils, Large DW (3"+), Small DW (1-2"), Broken Limbs

Date: \_\_\_\_\_

### Tree Protection Action Key

Project: \_\_\_\_\_

Tree Tag #	DBH (Inches)	Common Name	Scientific Name	Condition Rating	Condition/Comments
754	30	tuliptree	<i>Liriodendron tulipifera</i>	Good	Full Crown, Large DW (3"+), Broken Limbs
1351	39	maple, silver	<i>Acer saccharinum</i>	Good	Small DW (1-2"), Vines
1355	43	hackberry, common	<i>Celtis occidentalis</i>	Fair	Heavy vine cover, large dead wood, small dead wood, compacted roots, hardware

\* Denotes tree is located off-site

# **EXHIBIT 19**

Date: \_\_\_\_\_

## Tree Protection Action Key

Project: \_\_\_\_\_

Tree Tag #	DBH (Inches)	Common Name	Scientific Name	Condition Rating
1	29	cedar, eastern red	<i>Juniperus virginiana</i>	Good
1A*	25	cherry, black	<i>Prunus serotina</i>	Fair
2	25	hickory, mockernut	<i>Carya tomentosa</i>	Good
2A	25	sycamore, American	<i>Platanus occidentalis</i>	Fair
3A	24	sycamore, American	<i>Platanus occidentalis</i>	Poor
4A	29	sycamore, American	<i>Platanus occidentalis</i>	Poor
5	29	tuliptree	<i>Liriodendron tulipifera</i>	Fair
6A	25	cottonwood, eastern	<i>Populus deltoides</i>	Fair
7A	25	pine, eastern white	<i>Pinus strobus</i>	Good
8A	25	pine, eastern white	<i>Pinus strobus</i>	Good
10	26	oak, pin	<i>Quercus palustris</i>	Fair
10A	26	pine, eastern white	<i>Pinus strobus</i>	Poor
11A	28	maple, Norway	<i>Acer platanoides</i>	Good
13	28	oak, northern red	<i>Quercus rubra</i>	Poor
13A	29	elm spp	<i>Ulmus spp.</i>	Fair
14	25	tuliptree	<i>Liriodendron tulipifera</i>	Good
15	27	oak, northern red	<i>Quercus rubra</i>	Good
16	29	tuliptree	<i>Liriodendron tulipifera</i>	Good
16A	24	tuliptree	<i>Liriodendron tulipifera</i>	Fair
17A	25	tuliptree	<i>Liriodendron tulipifera</i>	Fair
18	27	tuliptree	<i>Liriodendron tulipifera</i>	Good
18A	24	tuliptree	<i>Liriodendron tulipifera</i>	Good
19	25	tuliptree	<i>Liriodendron tulipifera</i>	Fair
19A	25	cherry, black	<i>Prunus serotina</i>	Poor
20*	27	tuliptree	<i>Liriodendron tulipifera</i>	Fair



## Tree Protection Action Key

Tree Tag #	DBH (Inches)	Common Name	Scientific Name	Condition Rating
21*	28	oak, northern red	<i>Quercus rubra</i>	Fair
22A	29	hackberry, common	<i>Celtis occidentalis</i>	Poor
23	24	maple, red	<i>Acer rubrum</i>	Good
23A	28	walnut, black	<i>Juglans nigra</i>	Poor
24	25	sycamore, American	<i>Platanus occidentalis</i>	Good
24A	24	aspen, quaking	<i>Populus tremuloides</i>	Fair
25	25	sycamore, American	<i>Platanus occidentalis</i>	Good
26	25	sweetgum, American	<i>Liquidambar styraciflua</i>	Fair
26A	28	oak, northern red	<i>Quercus rubra</i>	Poor
27	26	tuliptree	<i>Liriodendron tulipifera</i>	Good
27A	25	tuliptree	<i>Liriodendron tulipifera</i>	Good
28	24	tuliptree	<i>Liriodendron tulipifera</i>	Fair
28A	27	tuliptree	<i>Liriodendron tulipifera</i>	Fair
29	25	tuliptree	<i>Liriodendron tulipifera</i>	Poor
29A	24	oak, chestnut	<i>Quercus montana</i>	Fair
30	26	sycamore, American	<i>Platanus occidentalis</i>	Good
30A	27	tuliptree	<i>Liriodendron tulipifera</i>	Poor
31	25	tuliptree	<i>Liriodendron tulipifera</i>	Good
31A	27	tuliptree	<i>Liriodendron tulipifera</i>	Fair
32	26	sycamore, American	<i>Platanus occidentalis</i>	Good
32A	26	tuliptree	<i>Liriodendron tulipifera</i>	Fair
33	25	tuliptree	<i>Liriodendron tulipifera</i>	Good
33A	29	oak, northern red	<i>Quercus rubra</i>	Fair
34	27	sycamore, American	<i>Platanus occidentalis</i>	Good
35	25	sycamore, American	<i>Platanus occidentalis</i>	Good
37	27	tuliptree	<i>Liriodendron tulipifera</i>	Good
38	26	tuliptree	<i>Liriodendron tulipifera</i>	Good
39	25	cherry, black	<i>Prunus serotina</i>	Fair
41	28	tuliptree	<i>Liriodendron tulipifera</i>	Good
43	26	tuliptree	<i>Liriodendron tulipifera</i>	Good
45	25	tuliptree	<i>Liriodendron tulipifera</i>	Good

## Tree Protection Action Key

Tree Tag #	DBH (Inches)	Common Name	Scientific Name	Condition Rating
46	25	tuliptree	<i>Liriodendron tulipifera</i>	Good
47	27	sycamore, American	<i>Platanus occidentalis</i>	Good
48	28	beech, American	<i>Fagus grandifolia</i>	Good
50	26	sycamore, American	<i>Platanus occidentalis</i>	Good
52	27	tuliptree	<i>Liriodendron tulipifera</i>	Fair
54	27	tuliptree	<i>Liriodendron tulipifera</i>	Good
55	24	sycamore, American	<i>Platanus occidentalis</i>	Good
56	26	tuliptree	<i>Liriodendron tulipifera</i>	Good
57	28	tuliptree	<i>Liriodendron tulipifera</i>	Fair
58	29	tuliptree	<i>Liriodendron tulipifera</i>	Good
59	27	tuliptree	<i>Liriodendron tulipifera</i>	Fair
60	27	tuliptree	<i>Liriodendron tulipifera</i>	Good
61	25	tuliptree	<i>Liriodendron tulipifera</i>	Good
62	25	tuliptree	<i>Liriodendron tulipifera</i>	Good
64	27	tuliptree	<i>Liriodendron tulipifera</i>	Good
65	27	elm, American	<i>Ulmus americana</i>	Fair
66	26	tuliptree	<i>Liriodendron tulipifera</i>	Good
67	26	tuliptree	<i>Liriodendron tulipifera</i>	Good
69	29	tuliptree	<i>Liriodendron tulipifera</i>	Good
71	27	sycamore, American	<i>Platanus occidentalis</i>	Good
72	27	tuliptree	<i>Liriodendron tulipifera</i>	Good
73	26	tuliptree	<i>Liriodendron tulipifera</i>	Fair
74	26	tuliptree	<i>Liriodendron tulipifera</i>	Poor
75	25	tuliptree	<i>Liriodendron tulipifera</i>	Good
78	28	tuliptree	<i>Liriodendron tulipifera</i>	Good
80	25	tuliptree	<i>Liriodendron tulipifera</i>	Good
82	28	tuliptree	<i>Liriodendron tulipifera</i>	Good
85	29	tuliptree	<i>Liriodendron tulipifera</i>	Good
86	25	tuliptree	<i>Liriodendron tulipifera</i>	Good
87	24	tuliptree	<i>Liriodendron tulipifera</i>	Good
88*	28	oak, northern red	<i>Quercus rubra</i>	Fair
89*	25	tuliptree	<i>Liriodendron tulipifera</i>	Good
91	29	tuliptree	<i>Liriodendron tulipifera</i>	Good
92	26	tuliptree	<i>Liriodendron tulipifera</i>	Good
93	27	tuliptree	<i>Liriodendron tulipifera</i>	Good
94	24	tuliptree	<i>Liriodendron tulipifera</i>	Fair
96	27	tuliptree	<i>Liriodendron tulipifera</i>	Good
97	24	tuliptree	<i>Liriodendron tulipifera</i>	Good
101	27	tuliptree	<i>Liriodendron tulipifera</i>	Fair

Date: \_\_\_\_\_

## Tree Protection Action Key

Project: \_\_\_\_\_

Tree Tag #	DBH (Inches)	Common Name	Scientific Name	Condition Rating
103*	25	sycamore, American	<i>Platanus occidentalis</i>	Good
104*	25	tuliptree	<i>Liriodendron tulipifera</i>	Good
106*	28	tuliptree	<i>Liriodendron tulipifera</i>	Fair
107	26	sycamore, American	<i>Platanus occidentalis</i>	Fair
108	27	tuliptree	<i>Liriodendron tulipifera</i>	Fair
109	24	tuliptree	<i>Liriodendron tulipifera</i>	Good
110	26	tuliptree	<i>Liriodendron tulipifera</i>	Fair
111	24	tuliptree	<i>Liriodendron tulipifera</i>	Fair
112	27	tuliptree	<i>Liriodendron tulipifera</i>	Good
113	27	tuliptree	<i>Liriodendron tulipifera</i>	Good
116	27	tuliptree	<i>Liriodendron tulipifera</i>	Good
117	29	tuliptree	<i>Liriodendron tulipifera</i>	Fair
118	26	tuliptree	<i>Liriodendron tulipifera</i>	Fair
121	29	tuliptree	<i>Liriodendron tulipifera</i>	Fair
122	26	tuliptree	<i>Liriodendron tulipifera</i>	Good
123	26	tuliptree	<i>Liriodendron tulipifera</i>	Good
124	27	tuliptree	<i>Liriodendron tulipifera</i>	Good
126	29	tuliptree	<i>Liriodendron tulipifera</i>	Fair
134*	27	oak, northern red	<i>Quercus rubra</i>	Fair
139	29	tuliptree	<i>Liriodendron tulipifera</i>	Fair
141	24	tuliptree	<i>Liriodendron tulipifera</i>	Good
142	26	tuliptree	<i>Liriodendron tulipifera</i>	Fair
134*	27	oak, northern red	<i>Quercus rubra</i>	Fair
139	29	tuliptree	<i>Liriodendron tulipifera</i>	Fair
141	24	tuliptree	<i>Liriodendron tulipifera</i>	Good
142	26	tuliptree	<i>Liriodendron tulipifera</i>	Fair
145	25	tuliptree	<i>Liriodendron tulipifera</i>	Fair
146	26	tuliptree	<i>Liriodendron tulipifera</i>	Fair

## Tree Protection Action Key

Tree Tag #	DBH (Inches)	Common Name	Scientific Name	Condition Rating
147	26	tuliptree	<i>Liriodendron tulipifera</i>	Fair
148	26	tuliptree	<i>Liriodendron tulipifera</i>	Fair
155	27	ash spp.	<i>Fraxinus spp.</i>	Poor
156	25	maple, red	<i>Acer rubrum</i>	Fair
158	25	tuliptree	<i>Liriodendron tulipifera</i>	Good
159	24	tuliptree	<i>Liriodendron tulipifera</i>	Good
161	27	tuliptree	<i>Liriodendron tulipifera</i>	Good
163	27	tuliptree	<i>Liriodendron tulipifera</i>	Fair
164	27	tuliptree	<i>Liriodendron tulipifera</i>	Fair
166	26	tuliptree	<i>Liriodendron tulipifera</i>	Fair
167	26	cherry, black	<i>Prunus serotina</i>	Fair
171	26	tuliptree	<i>Liriodendron tulipifera</i>	Good
172	28	oak, northern red	<i>Quercus rubra</i>	Fair
174	26	tuliptree	<i>Liriodendron tulipifera</i>	Poor
177	24	tuliptree	<i>Liriodendron tulipifera</i>	Poor
179	29	oak, chestnut	<i>Quercus montana</i>	Poor
181	27	tuliptree	<i>Liriodendron tulipifera</i>	Good
183	24	tuliptree	<i>Liriodendron tulipifera</i>	Fair
184	24	tuliptree	<i>Liriodendron tulipifera</i>	Fair
185	26	tuliptree	<i>Liriodendron tulipifera</i>	Good
186	25	tuliptree	<i>Liriodendron tulipifera</i>	Good
187	27	tuliptree	<i>Liriodendron tulipifera</i>	Good
188	25	tuliptree	<i>Liriodendron tulipifera</i>	Good
189	29	tuliptree	<i>Liriodendron tulipifera</i>	Good
192	28	tuliptree	<i>Liriodendron tulipifera</i>	Fair
193	24	tuliptree	<i>Liriodendron tulipifera</i>	Fair
194	24	tuliptree	<i>Liriodendron tulipifera</i>	Fair
195	26	tuliptree	<i>Liriodendron tulipifera</i>	Fair
196	26	tuliptree	<i>Liriodendron tulipifera</i>	Fair
197	28	tuliptree	<i>Liriodendron tulipifera</i>	Good
200	28	tuliptree	<i>Liriodendron tulipifera</i>	Good
305	28	tuliptree	<i>Liriodendron tulipifera</i>	Good
306	27	tuliptree	<i>Liriodendron tulipifera</i>	Fair
308	28	tuliptree	<i>Liriodendron tulipifera</i>	Good

## Tree Protection Action Key

Tree Tag #	DBH (Inches)	Common Name	Scientific Name	Condition Rating
309	24	tuliptree	<i>Liriodendron tulipifera</i>	Poor
310	27	tuliptree	<i>Liriodendron tulipifera</i>	Fair
311	29	tuliptree	<i>Liriodendron tulipifera</i>	Fair
312	24	tuliptree	<i>Liriodendron tulipifera</i>	Poor
315	25	tuliptree	<i>Liriodendron tulipifera</i>	Fair
321*	26	oak, northern red	<i>Quercus rubra</i>	Fair
323	25	cherry, black	<i>Prunus serotina</i>	Fair
324	24	oak, white	<i>Quercus alba</i>	Good
325	27	tuliptree	<i>Liriodendron tulipifera</i>	Good
326*	24	tuliptree	<i>Liriodendron tulipifera</i>	Fair
327	26	tuliptree	<i>Liriodendron tulipifera</i>	Fair
328	27	tuliptree	<i>Liriodendron tulipifera</i>	Good
329	26	tuliptree	<i>Liriodendron tulipifera</i>	Poor
330	26	elm, American	<i>Ulmus americana</i>	Poor
333	26	sycamore, American	<i>Platanus occidentalis</i>	Fair
335	25	sycamore, American	<i>Platanus occidentalis</i>	Fair
340	26	tuliptree	<i>Liriodendron tulipifera</i>	Fair
341	27	tuliptree	<i>Liriodendron tulipifera</i>	Fair
342	29	tuliptree	<i>Liriodendron tulipifera</i>	Fair
344	25	tuliptree	<i>Liriodendron tulipifera</i>	Poor
345	24	tuliptree	<i>Liriodendron tulipifera</i>	Poor
346	27	tuliptree	<i>Liriodendron tulipifera</i>	Fair
348	27	tuliptree	<i>Liriodendron tulipifera</i>	Good
349	24	tuliptree	<i>Liriodendron tulipifera</i>	Fair
350	28	tuliptree	<i>Liriodendron tulipifera</i>	Good
352	27	tuliptree	<i>Liriodendron tulipifera</i>	Fair
353	29	tuliptree	<i>Liriodendron tulipifera</i>	Fair
356	25	tuliptree	<i>Liriodendron tulipifera</i>	Fair
357	29	tuliptree	<i>Liriodendron tulipifera</i>	Poor
358	26	tuliptree	<i>Liriodendron tulipifera</i>	Good
360	29	tuliptree	<i>Liriodendron tulipifera</i>	Fair
361	27	tuliptree	<i>Liriodendron tulipifera</i>	Good
362	25	oak, chestnut	<i>Quercus montana</i>	Fair

Date: \_\_\_\_\_

## Tree Protection Action Key

Project: \_\_\_\_\_

Tree Tag #	DBH (Inches)	Common Name	Scientific Name	Condition Rating
367	29	tuliptree	<i>Liriodendron tulipifera</i>	Fair
369	29	tuliptree	<i>Liriodendron tulipifera</i>	Poor
371	25	tuliptree	<i>Liriodendron tulipifera</i>	Critical
374	26	tuliptree	<i>Liriodendron tulipifera</i>	Fair
375	26	tuliptree	<i>Liriodendron tulipifera</i>	Poor
376	27	oak, chestnut	<i>Quercus montana</i>	Fair
377	25	oak, chestnut	<i>Quercus montana</i>	Fair
378	24	oak, white	<i>Quercus alba</i>	Fair
379	25	oak, chestnut	<i>Quercus montana</i>	Fair
380	25	oak, chestnut	<i>Quercus montana</i>	Fair
381	24	beech, American	<i>Fagus grandifolia</i>	Good
383	25	tuliptree	<i>Liriodendron tulipifera</i>	Poor
386	26	beech, American	<i>Fagus grandifolia</i>	Good
387	25	oak, white	<i>Quercus alba</i>	Fair
388	28	oak, white	<i>Quercus alba</i>	Fair
389	24	tuliptree	<i>Liriodendron tulipifera</i>	Fair
390	25	oak, white	<i>Quercus alba</i>	Good
391	24	tuliptree	<i>Liriodendron tulipifera</i>	Critical
392	26	tuliptree	<i>Liriodendron tulipifera</i>	Good
393	24	tuliptree	<i>Liriodendron tulipifera</i>	Fair
394	25	tuliptree	<i>Liriodendron tulipifera</i>	Fair
395	27	tuliptree	<i>Liriodendron tulipifera</i>	Fair
396	28	oak, white	<i>Quercus alba</i>	Good
397	28	oak, chestnut	<i>Quercus montana</i>	Poor
398	25	oak, white	<i>Quercus alba</i>	Good
399	25	oak, white	<i>Quercus alba</i>	Fair
400	25	oak, white	<i>Quercus alba</i>	Fair
401	26	oak, white	<i>Quercus alba</i>	Fair
402	24	hickory, mockernut	<i>Carya tomentosa</i>	Fair
403	25	tuliptree	<i>Liriodendron tulipifera</i>	Fair
404	26	tuliptree	<i>Liriodendron tulipifera</i>	Good

Date: \_\_\_\_\_

## Tree Protection Action Key

Project: \_\_\_\_\_

Tree Tag #	DBH (Inches)	Common Name	Scientific Name	Condition Rating
405	24	sycamore, American	<i>Platanus occidentalis</i>	Fair
406	24	sycamore, American	<i>Platanus occidentalis</i>	Fair
409	24	sycamore, American	<i>Platanus occidentalis</i>	Good
410	28	tuliptree	<i>Liriodendron tulipifera</i>	Fair
411	26	ash spp.	<i>Fraxinus spp.</i>	Poor
413	27	oak, northern red	<i>Quercus rubra</i>	Fair
414	27	cherry, black	<i>Prunus serotina</i>	Fair
416	27	elm, American	<i>Ulmus americana</i>	Good
417	29	maple, silver	<i>Acer saccharinum</i>	Fair
419*	28	maple, silver	<i>Acer saccharinum</i>	Critical
420	27	cherry, black	<i>Prunus serotina</i>	Good
421	26	oak, northern red	<i>Quercus rubra</i>	Good
423	26	oak, northern red	<i>Quercus rubra</i>	Fair
424	26	oak, northern red	<i>Quercus rubra</i>	Good
426*	26	cherry, black	<i>Prunus serotina</i>	Fair
427*	24	oak, northern red	<i>Quercus rubra</i>	Fair
428	24	blackgum	<i>Nyssa sylvatica</i>	Poor
429	29	maple, silver	<i>Acer saccharinum</i>	Good
431	28	tuliptree	<i>Liriodendron tulipifera</i>	Good
432	25	sycamore, American	<i>Platanus occidentalis</i>	Good
433	24	tuliptree	<i>Liriodendron tulipifera</i>	Poor
434	24	tuliptree	<i>Liriodendron tulipifera</i>	Poor
435	25	sycamore, American	<i>Platanus occidentalis</i>	Good
442	25	sycamore, American	<i>Platanus occidentalis</i>	Good
443	25	sycamore, American	<i>Platanus occidentalis</i>	Fair
449	29	tuliptree	<i>Liriodendron tulipifera</i>	Fair

## Tree Protection Action Key

Tree Tag #	DBH (Inches)	Common Name	Scientific Name	Condition Rating
450	27	tuliptree	<i>Liriodendron tulipifera</i>	Poor
452	24	tuliptree	<i>Liriodendron tulipifera</i>	Good
453	27	tuliptree	<i>Liriodendron tulipifera</i>	Poor
455	35	tuliptree	<i>Liriodendron tulipifera</i>	Fair
458	24	tuliptree	<i>Liriodendron tulipifera</i>	Fair
459	24	tuliptree	<i>Liriodendron tulipifera</i>	Poor
461	26	maple, silver	<i>Acer saccharinum</i>	Poor
466	27	oak, northern red	<i>Quercus rubra</i>	Poor
467	25	oak, scarlet	<i>Quercus coccinea</i>	Fair
468	24	oak, scarlet	<i>Quercus coccinea</i>	Fair
472	28	sycamore, American	<i>Platanus occidentalis</i>	Good
473	29	cottonwood, eastern	<i>Populus deltoides</i>	Good
474	25	cottonwood, eastern	<i>Populus deltoides</i>	Fair
476*	28	sycamore, American	<i>Platanus occidentalis</i>	Good
480	26	sycamore, American	<i>Platanus occidentalis</i>	Fair
481	26	sycamore, American	<i>Platanus occidentalis</i>	Good
486	26	sycamore, American	<i>Platanus occidentalis</i>	Good
488	29	sycamore, American	<i>Platanus occidentalis</i>	Good
489	25	walnut, black	<i>Juglans nigra</i>	Fair
493	26	sycamore, American	<i>Platanus occidentalis</i>	Good
494	24	sycamore, American	<i>Platanus occidentalis</i>	Good
495	25	cottonwood, eastern	<i>Populus deltoides</i>	Poor
496	27	oak, white	<i>Quercus alba</i>	Good
498	24	oak, southern red	<i>Quercus falcata</i>	Poor
499	25	oak, northern red	<i>Quercus rubra</i>	Good
500	25	oak, pin	<i>Quercus palustris</i>	Poor
639*	25	Tulip tree	<i>Liriodendron tulipifera</i>	Fair
640	25	Tulip tree	<i>Liriodendron tulipifera</i>	Fair
641	25	Tulip tree	<i>Liriodendron tulipifera</i>	Good
642	24	Tulip tree	<i>Liriodendron tulipifera</i>	Good
643	24	Tulip tree	<i>Liriodendron tulipifera</i>	Fair



## Tree Protection Action Key

Tree Tag #	DBH (Inches)	Common Name	Scientific Name	Condition Rating
645	26	Tulip tree	<i>Liriodendron tulipifera</i>	Good
646	24	Tulip tree	<i>Liriodendron tulipifera</i>	Fair
647	24	Am. Sycamore	<i>Platanus occidentalis</i>	Good
649	25	Black cherry	<i>Prunus serotina</i>	Fair
650	24	Mulberry	<i>Morus alba</i>	Fair
651	29	Black cherry	<i>Prunus serotina</i>	Good
653	27	Black walnut	<i>Juglans nigra</i>	Good
654	25	Black walnut	<i>Juglans nigra</i>	Fair
655	28	Black walnut	<i>Juglans nigra</i>	Good
656	29	Boxelder	<i>Acer negundo</i>	Fair
657	24	Tuliptree	<i>Liriodendron tulipifera</i>	Poor
658	25	Boxelder	<i>Acer negundo</i>	Poor
661	25	American sycamore	<i>Platanus occidentalis</i>	Good
662	24	American elm	<i>Ulmus americana</i>	Fair
666	29	White oak	<i>Quercus alba</i>	Good
667	27	Northern red oak	<i>Quercus rubra</i>	Fair
669	26	White oak	<i>Quercus alba</i>	Fair
670	29	Chestnut oak	<i>Quercus montana</i>	Good
672	27	Hickory	<i>Carya sp.</i>	Poor
673	25	Chestnut oak	<i>Quercus montana</i>	Good
674	26	Tulip tree	<i>Liriodendron tulipifera</i>	Fair
675	24	Tulip tree	<i>Liriodendron tulipifera</i>	Fair
676	27	Tulip tree	<i>Liriodendron tulipifera</i>	Good
677	29	Tulip tree	<i>Liriodendron tulipifera</i>	Good
678	29	Am beech	<i>Fagus grandifolia</i>	Fair
680	29	Tulip tree	<i>Liriodendron tulipifera</i>	Good
683	24	Tulip tree	<i>Liriodendron tulipifera</i>	Fair
686	29	Northern red oak	<i>Quercus rubra</i>	Fair
688	24	Northern red oak	<i>Quercus rubra</i>	Good
689	25	Tulip tree	<i>Liriodendron tulipifera</i>	Good
690	29	Tulip tree	<i>Liriodendron tulipifera</i>	Good
691	26	Tulip tree	<i>Liriodendron tulipifera</i>	Fair
692	25	Tulip tree	<i>Liriodendron tulipifera</i>	Fair
693	25	Tulip tree	<i>Liriodendron tulipifera</i>	Fair
695	28	Hickory	<i>Carya sp.</i>	Good
696	28	Hackberry	<i>Celtis occidentalis</i>	Fair
697	24	Hackberry	<i>Celtis occidentalis</i>	Poor
699	27	Hickory	<i>Carya sp.</i>	Good
701	24	aspen, quaking	<i>Populus tremuloides</i>	Good
705	25	maple, silver	<i>Acer saccharinum</i>	Fair
706	25	oak, pin	<i>Quercus palustris</i>	Good
709	28	sycamore, American	<i>Platanus occidentalis</i>	Good
710	28	tuliptree	<i>Liriodendron tulipifera</i>	Fair

## Tree Protection Action Key

Tree Tag #	DBH (Inches)	Common Name	Scientific Name	Condition Rating
711	26	tuliptree	<i>Liriodendron tulipifera</i>	Fair
712	24	maple, red	<i>Acer rubrum</i>	Fair
716	25	tuliptree	<i>Liriodendron tulipifera</i>	Good
718	26	maple, silver	<i>Acer saccharinum</i>	Good
719	28	tuliptree	<i>Liriodendron tulipifera</i>	Good
720	27	tuliptree	<i>Liriodendron tulipifera</i>	Good
721	25	maple, silver	<i>Acer saccharinum</i>	Good
722	28	tuliptree	<i>Liriodendron tulipifera</i>	Good
724	28	maple, silver	<i>Acer saccharinum</i>	Poor
725	24	tuliptree	<i>Liriodendron tulipifera</i>	Fair
726	25	tuliptree	<i>Liriodendron tulipifera</i>	Fair
727	26	tuliptree	<i>Liriodendron tulipifera</i>	Good
728	25	tuliptree	<i>Liriodendron tulipifera</i>	Fair
731	27	maple, silver	<i>Acer saccharinum</i>	Poor
732	29	tuliptree	<i>Liriodendron tulipifera</i>	Good
733	28	chokeberry, black	<i>Aronia melanocarpa</i>	Poor
734	28	cottonwood, eastern	<i>Populus deltoides</i>	Poor
735	29	maple, silver	<i>Acer saccharinum</i>	Fair
736	25	maple, silver	<i>Acer saccharinum</i>	Fair
737	24	boxelder	<i>Acer negundo</i>	Fair
738	26	tuliptree	<i>Liriodendron tulipifera</i>	Good
740	29	tuliptree	<i>Liriodendron tulipifera</i>	Good
741	25	cottonwood, eastern	<i>Populus deltoides</i>	Poor
742	25	tuliptree	<i>Liriodendron tulipifera</i>	Fair

Date: \_\_\_\_\_

## Tree Protection Action Key

Project: \_\_\_\_\_

Tree Tag #	DBH (Inches)	Common Name	Scientific Name	Condition Rating
743	24	walnut, black	<i>Juglans nigra</i>	Good
748	28	oak, white	<i>Quercus alba</i>	Fair
749	25	oak, northern red	<i>Quercus rubra</i>	Fair
750	24	oak, northern red	<i>Quercus rubra</i>	Fair
751	29	oak, post	<i>Quercus stellata</i>	Fair
753	28	hickory spp.	<i>Carya spp.</i>	Fair
755	26	Black cherry	<i>Prunus serotina</i>	Fair
1348	27	tree of heaven	<i>Ailanthus altissima</i>	Poor
1349	24	sycamore, American	<i>Platanus occidentalis</i>	Good
1350	25	sycamore, American	<i>Platanus occidentalis</i>	Fair
1352	27	pine, Virginia	<i>Pinus virginiana</i>	Fair
1353	26	elm, American	<i>Ulmus americana</i>	Fair

# **ATTACHMENT 1**