



Developing Bid Specifications for Invasive Plant Control Programs





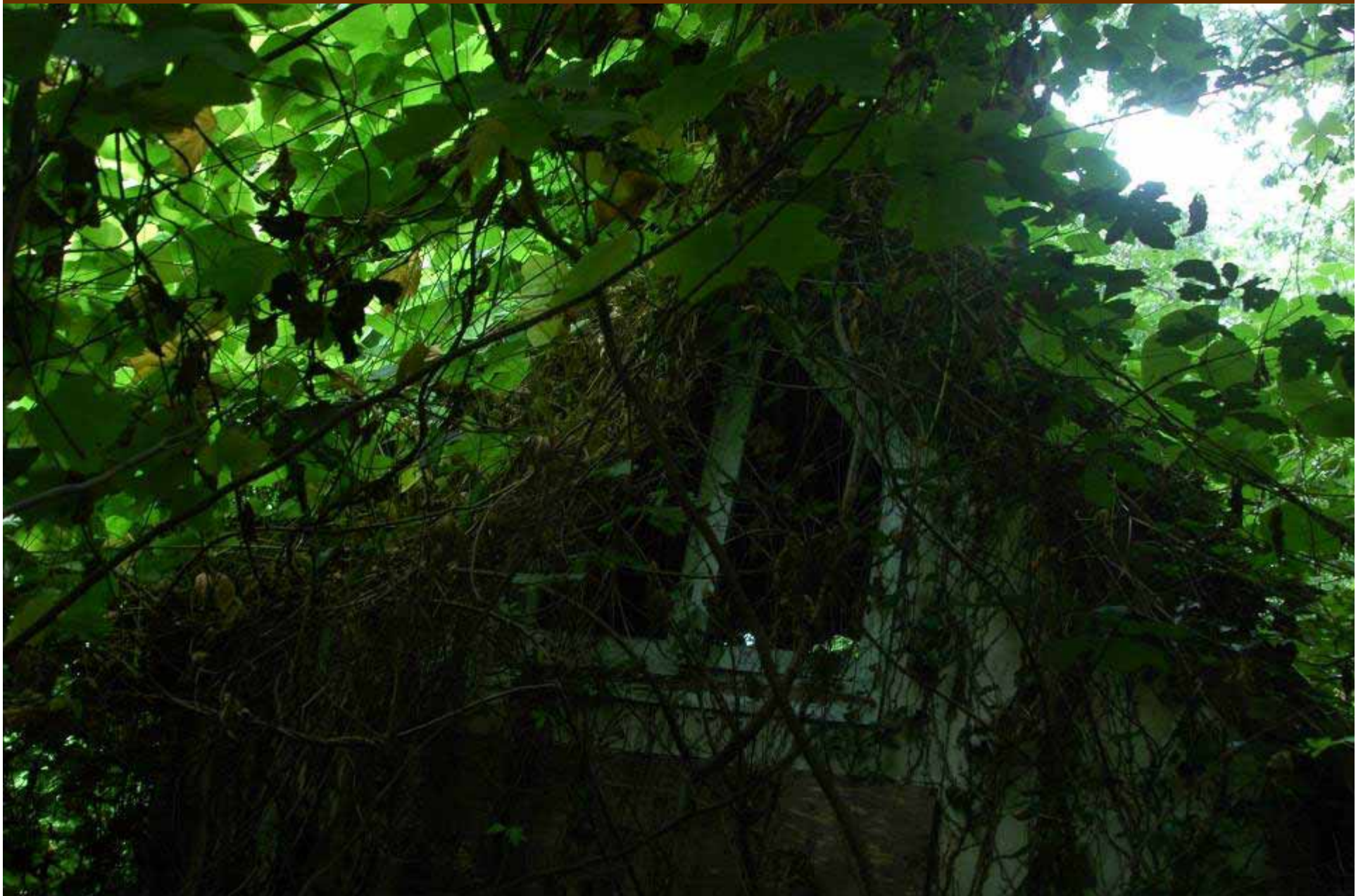
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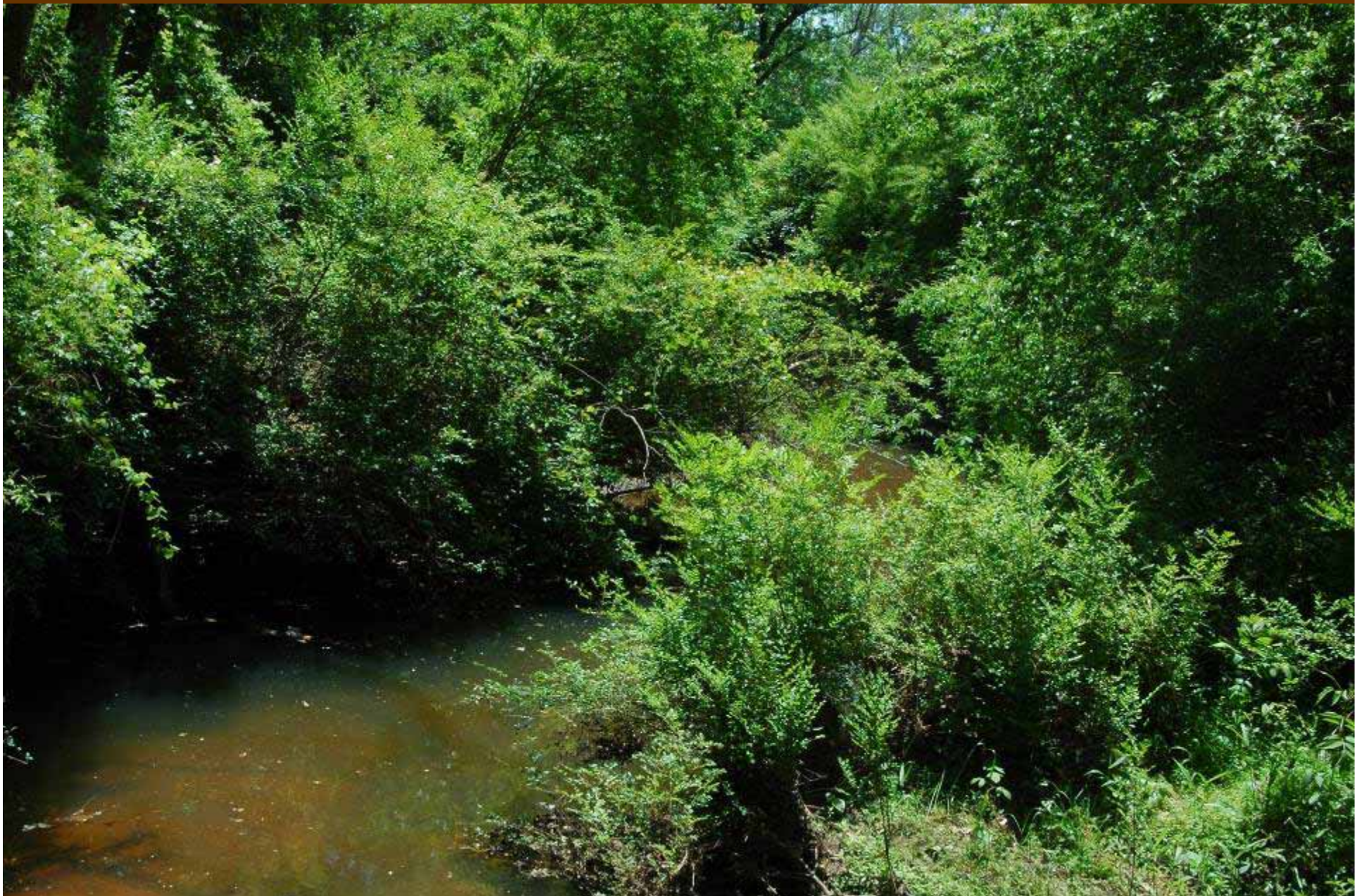






Fart Yargo State Park, GA

Does your staff have the time and equipment to control this site?







Type of Labor Available

Labor Types

- Volunteers Labor
- In House Labor
- Contract Labor

Infestation Levels

1-2

1-2-3

1-2-3-4-5

Bid Specs Guide



Qualify Contractors Experience

- Call several references
- Ask for educational background of personnel that will be ON SITE
- Define your insurance requirements and request a certificate of insurance with the bid
- Ask for a 1-2 page description of how company is qualified to do this work

The background of the slide is a photograph of a dense, green plant with many small, pointed leaves, possibly a species of invasive plant. The plant is in the foreground, and the background is a blurred, hazy landscape with hills and a sky. The text is overlaid on the plant.

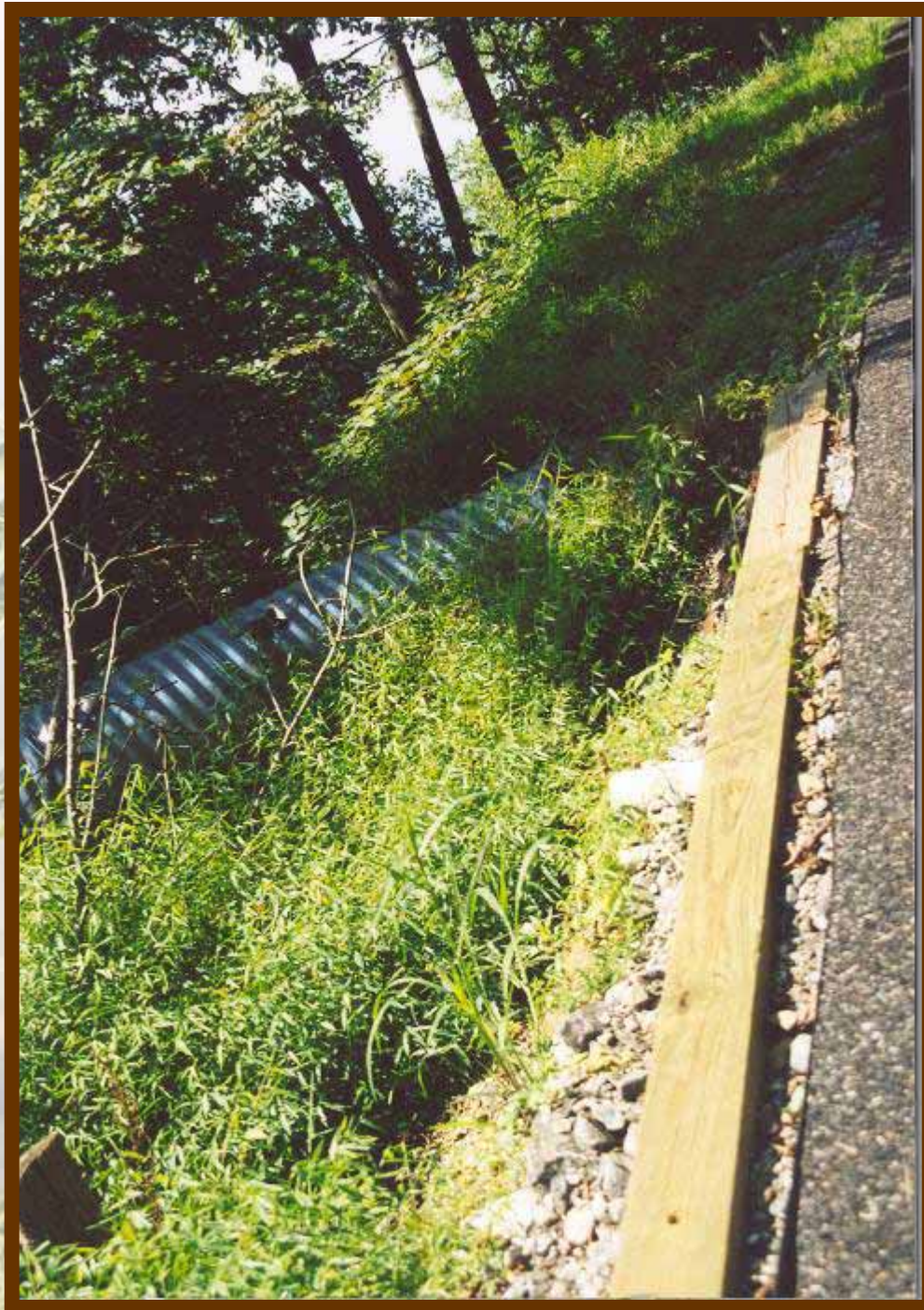
Identify and Illustrate the Long Term Plan for the Site

Tallulah Gorge State Park in Georgia



NC State University in Raleigh, NC





*Amicalola Falls
State Park in
Georgia*

Specifically
outline all
specifications



March 2001

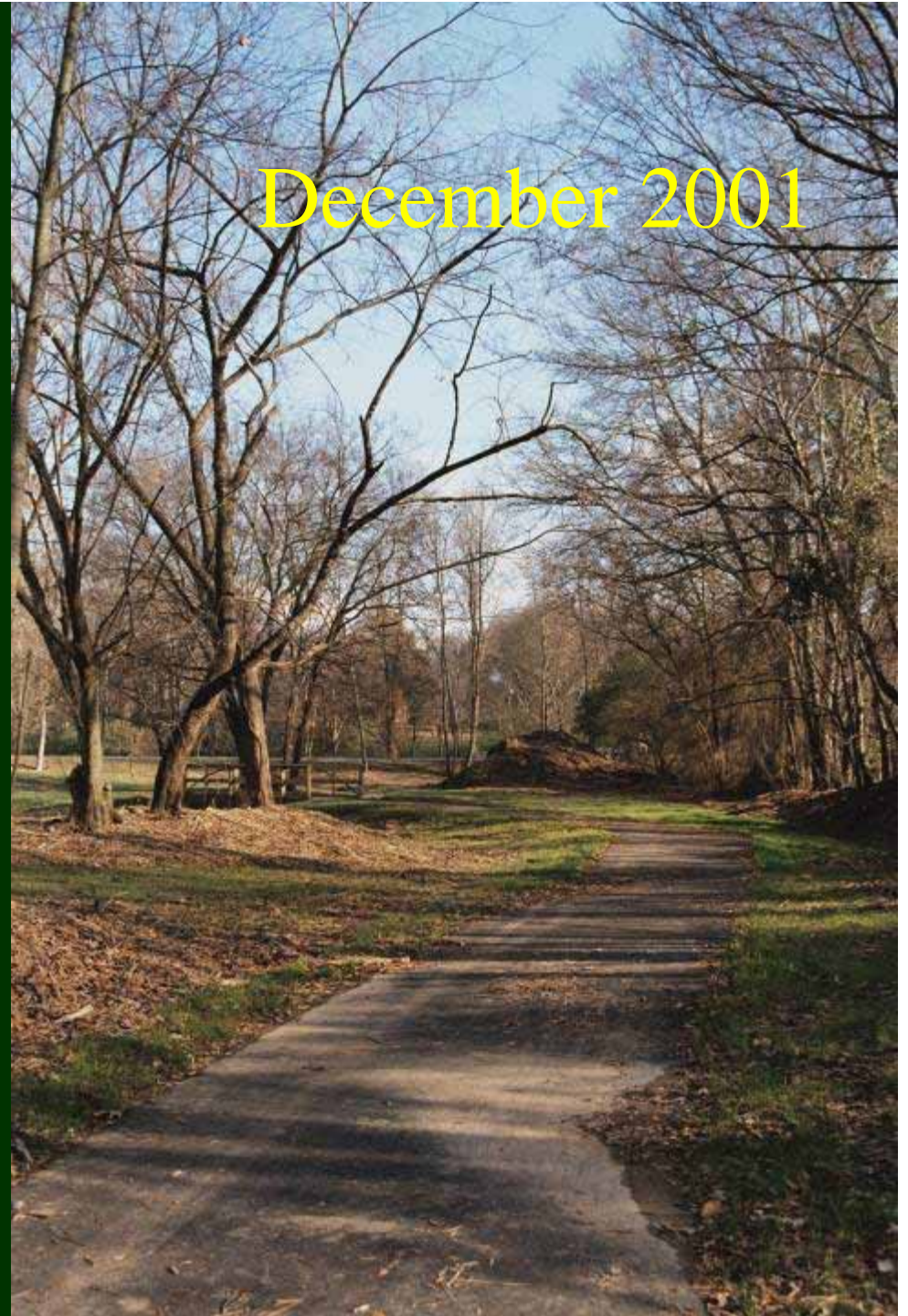


December 2001

March 2001



December 2001



Japanese Stilt Grass
Microstegium vimineum



*Introduced from Japan, Korea,
China, Malaysia, and India*

Prescribed Burning



Invasives Thrive off of Disruption

Fort Yargo State Park
in Georgia



Prescribed Burn 2004

Invasives Become the First Movers

Fort Yargo State Park
in Georgia

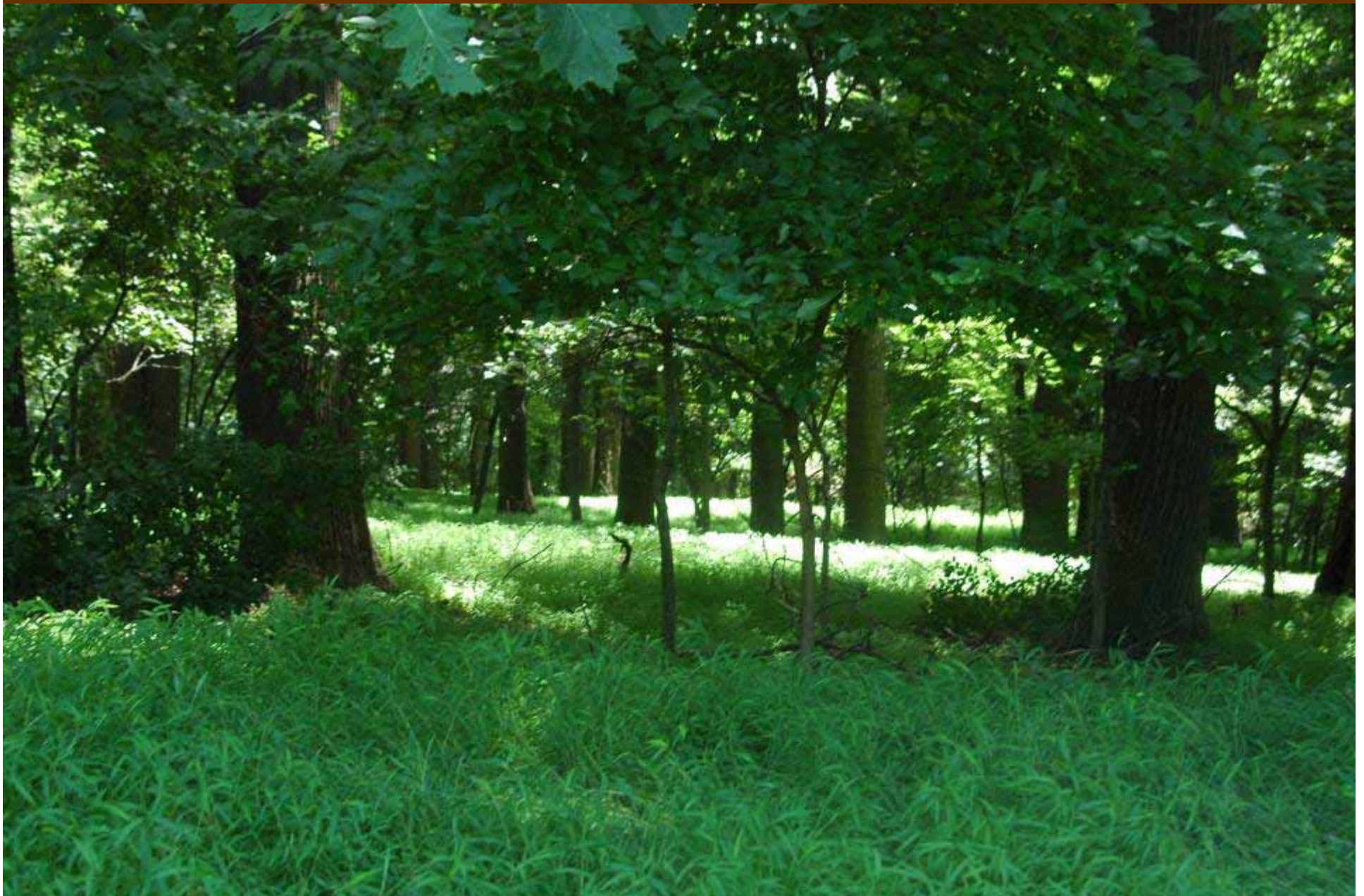


Prescribed Burn 2004

Invasives form Monocultures thus displacing Native Species



Prescribed Burn 2004
New Growth 2005





To Control Invasive Plants other species need to be kept in check

Japanese Stilt Grass
Microstegium vimineum



Valley Forge National Park, PA

Define the scope of the project



Offer a Detailed Description of the Work to be Performed

- Outline the desirable species
- Define infestation level
- Clearly identify the species for control
- Define Equipment
- Clearly define the required mortality rate and non target expectations
- Outline required methodology

Highlight the desirable species

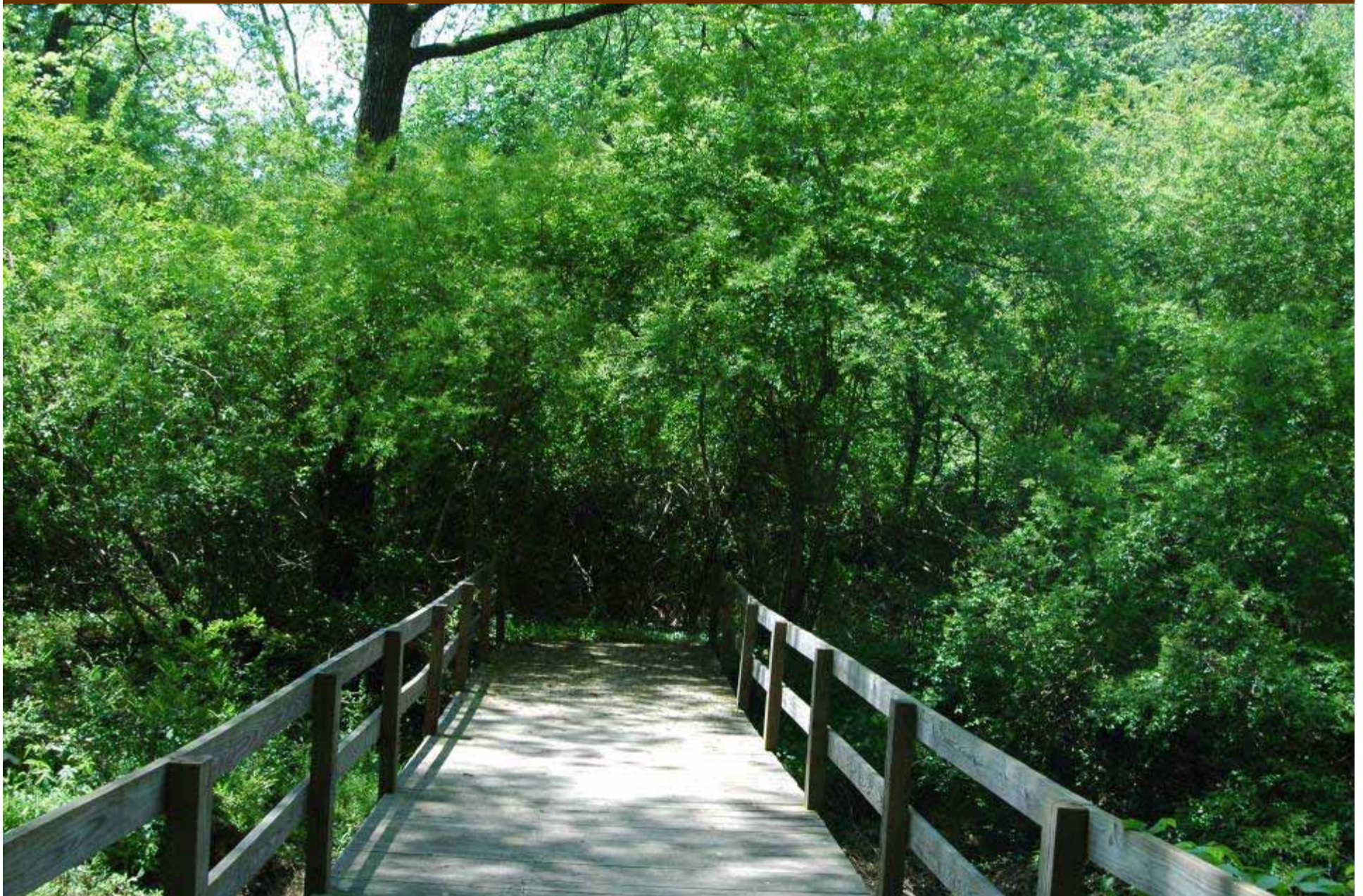


Define the Level of Infestation to the Prospective Contractor

- Level One
 - Level Two
 - Level Three
 - Level Four
 - Level Five
- OR
- High Intensity
 - Medium Intensity
 - Low Intensity

Introduced from China

Privet
Ligustrum species







Privet
Ligustrum species

Birmingham Alabama





Clearly identify the species for control

- Utilize EPPC lists and require that all species on the list be controlled if found
 - If funds do not allow this, specify the one target species



Test in the Field

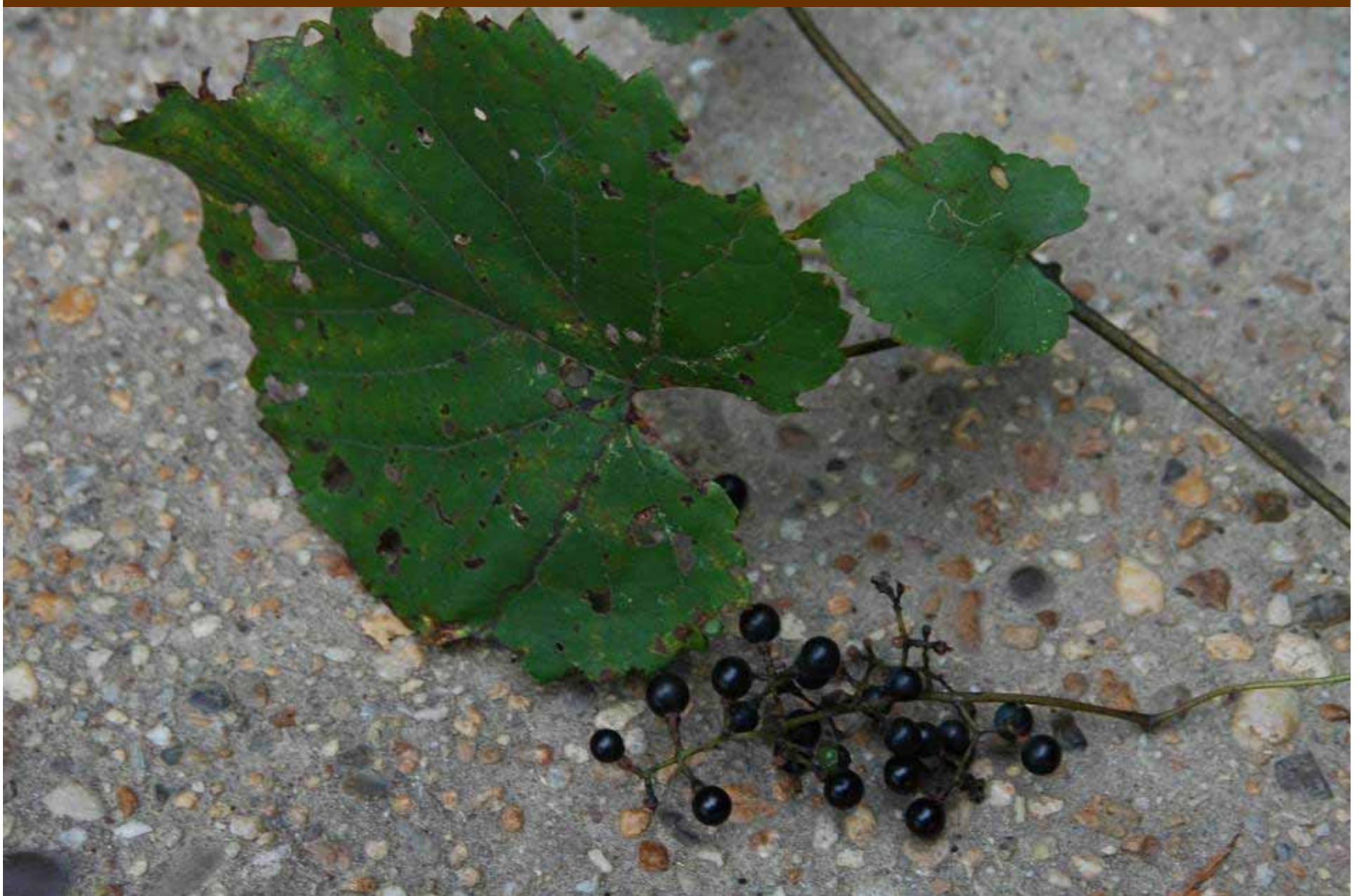
Porcelain Berry
Ampelopsis Brevipedunculata



Porcelain Berry
Ampelopsis Brevipedunculata







Porcelain Berry
Ampelopsis Brevipedunculata



Outline Equipment Requirements









Clearly define the methodology



Hand Pulling





Lopping Shears

Cutting vines from the base of trees











Cut and Treat with Chainsaws



Shenandoah National Park, VA

Selective Foliar Spraying





ATV Sprayer with Hose and Boomless Nozzles



**Arnold Air Force Base
Tullahoma, TN**

Highlight the Need for Selectivity

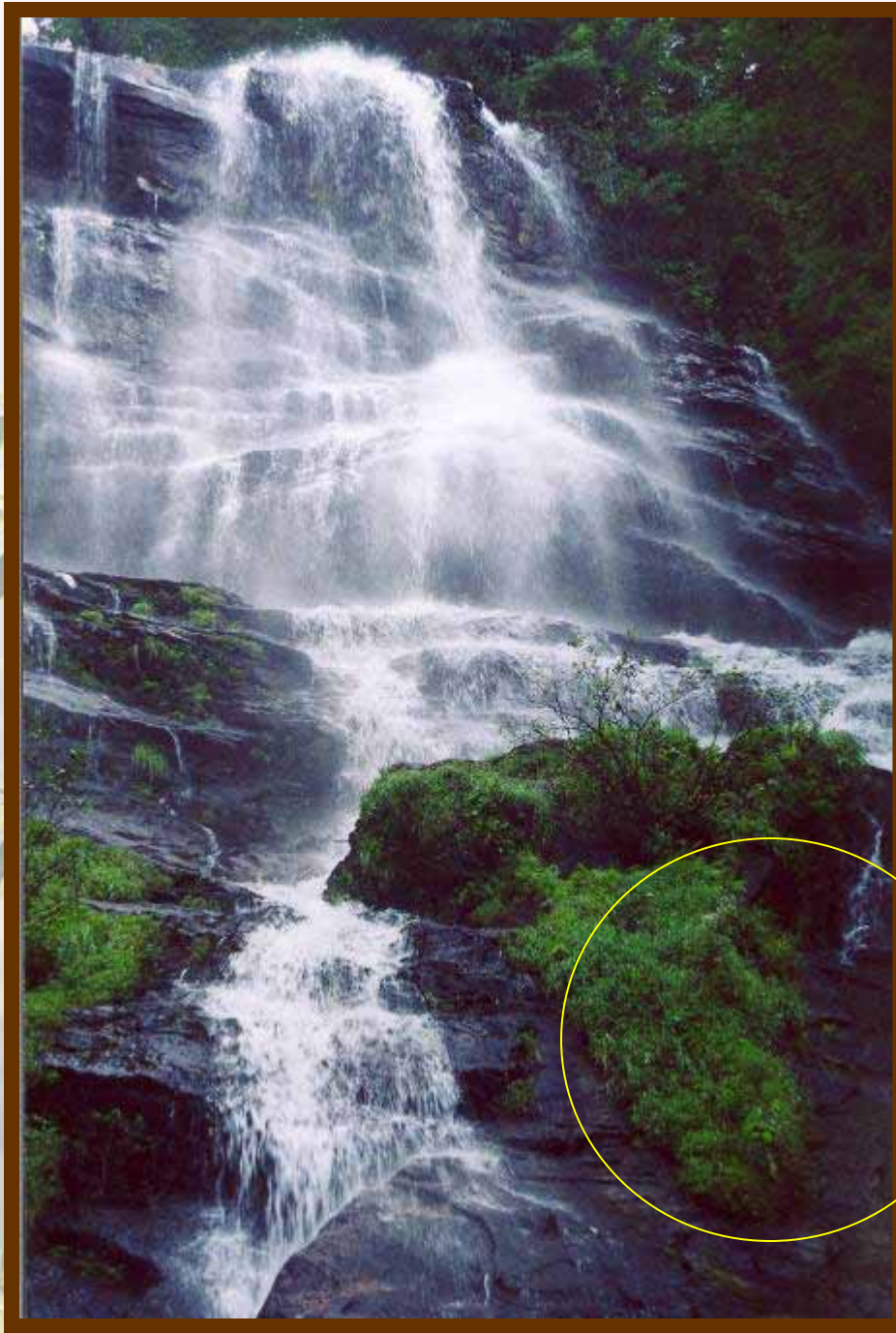
- Are there rare plants in proximity to the invasives?
 - Backpack sprayers for ivy around ferns

Consider Proximity to Desirable Species





Tree of Heaven
Ailanthus altissima



*Strictly outline
herbicides or
methodologies
recommended
and stress
enforcement*

Consider Proximity to Water

Japanese Knotweed
Polygonum cuspidatum



**Frick Park,
in Pittsburgh PA**







**Egypt Valley WMA
in Southeast Ohio**



Autumn Olive
Elaeagnus umbellata

**Egypt Valley WMA
in Southeast Ohio**

Native of China & Japan

Autumn Olive
Elaeagnus umbellata





*Use of Marking Dyes Can Increase Effectiveness
of Treatments*

Tree of Heaven
Ailanthus altissima



**Warner Parks
Nashville, TN**

Cut and Treat with Brush Cutters



Arnold AFB, TN



Nonselective Control









Emphasize Required Season/Timing for the Project

- How does the timing effect the ability to use different methodologies?
- How does season effect mortality rate?

Late Summer



Introduced from Europe in 1868 as a medicinal herb



Gettysburg National
Battlefield, PA

Frick Park, Pittsburgh, PA

Garlic Mustard
Alliaria petiolata



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Invasive Plant Control, Inc.

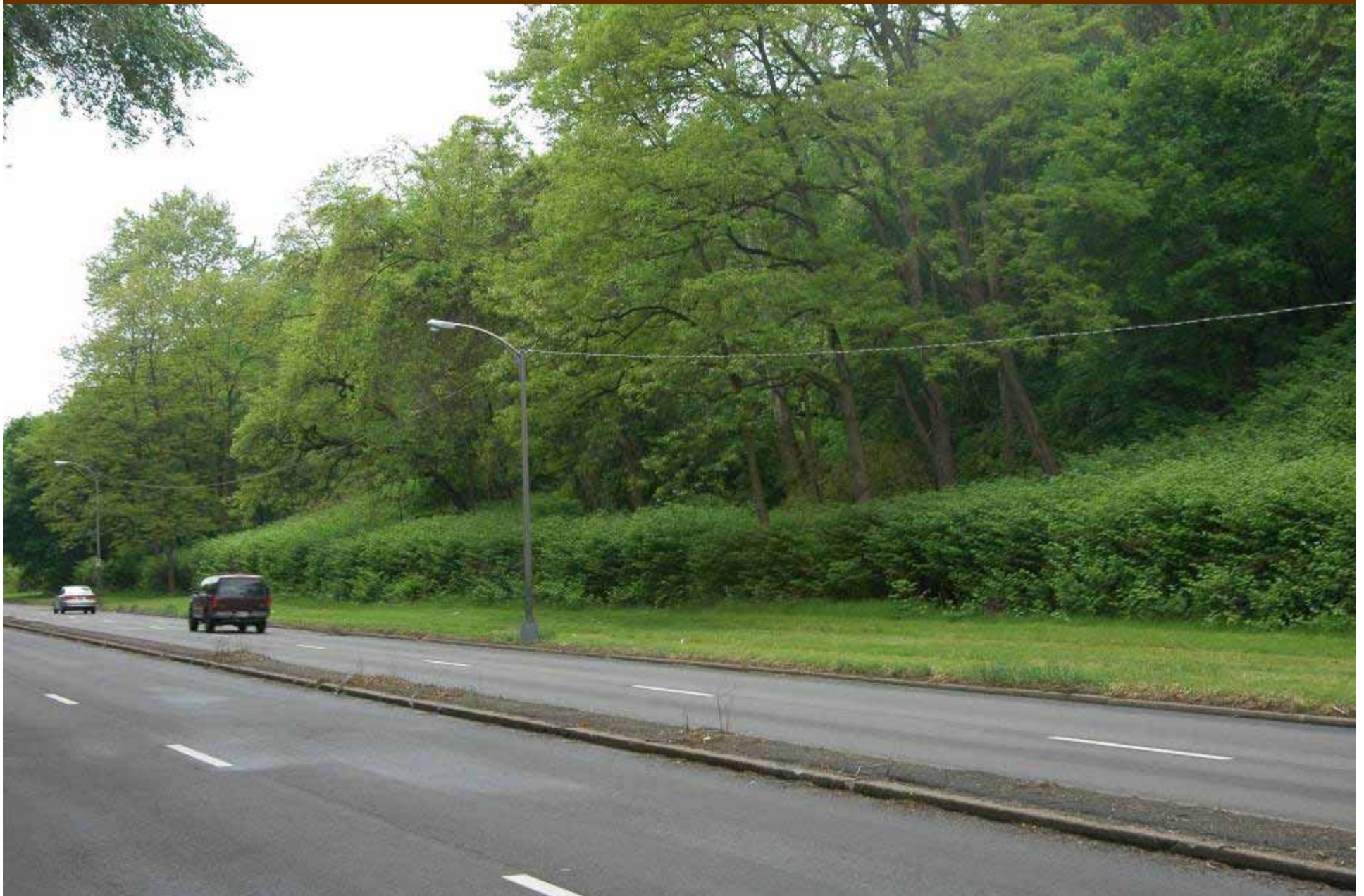


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Garlic Mustard
Alliaria petiolata

Schenley Park, Pittsburgh, PA





Japanese Knotweed
Polygonum cuspidatum



Introduced to the US by European immigrants

English Ivy
Hedera helix L



Wilson Park
Chattanooga, TN



Round Up Pro 7%

English Ivy
Hedera helix L





Clearly define the required mortality rate and non target expectations

- Penalize for a % of non target Impact

Require a Performance Guarantee

- i.e 95% mortality rate for multistemmed treatments after initial control

A Few Key Points

Seven Factors for Control

- I. What is the Long Term Plan for the Site?
- II. What is the Need for Selectivity?
- III. How does Seasonality effect mortality?
- IV. How will you determine the Cost of the Project?
- V. What is the Level of Infestation ?
- VI. What Type of Labor is Suitable?
- VII. Choice of Methodology (IPM)



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