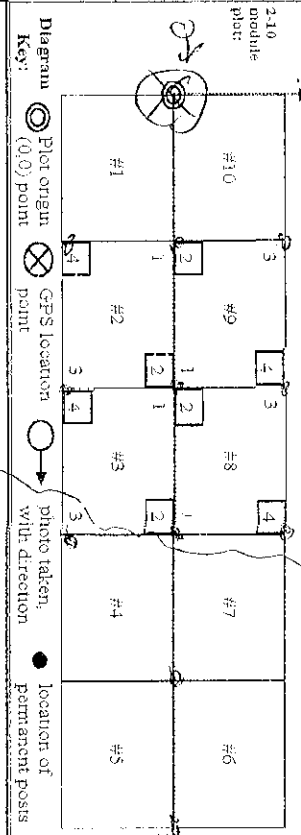






CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

| GENERAL INFORMATION | | | |
|---|------|-------------|------|
| Project Label: PCAP | | | |
| Project Name: OH-18071 | | | |
| Plot Name: Where did you get your antlers? | | | |
| Plot No.: 1149 | | | |
| <input type="checkbox"/> Level 4 (no nested corners sampled) <input checked="" type="checkbox"/> Level 5 (nested corners sampled) | | | |
| Date (mm/dd/yyyy): 7/14/2011 | | | |
| End date (if > 1 day): | | | |
| Party: | | Role** | |
| S. Edwards | | Plot leader | |
| J. Lantier | | Bot Asst | |
| J. Murphy | | botanist | |
| M. Brath | | | |
| ** Roles: Co-leader, Asst., Guide, Observer, Taxonomist, etc. | | | |
| PLOT NOT SAMPLED: <input type="checkbox"/> Other <input type="checkbox"/> Perm. water <input type="checkbox"/> Paved <input type="checkbox"/> Slope <input type="checkbox"/> Safety | | | |
| SAMPLING QUALITY* Effort Level: <input checked="" type="checkbox"/> Very thorough <input type="checkbox"/> Accurate <input type="checkbox"/> Hurried | | | |
| subjective evaluation of how much effort put into sampling. Hurried plots may still provide good data. | | | |
| TAXONOMIC ACCURACY | | | |
| | high | moderate | low |
| vascular | ✓ | | n/a |
| bryo | | | ✓ |
| lichen | | | ✓ |
| TAXONOMIC STANDARD | | | |
| Authority: | G&C | Pub Date: | 1998 |

| LOCATION | |
|--|-------------------------|
| State: | OH County: Medina |
| Quadrangle: | W. Richfield |
| Local Place Names: | Top of the ledges drive |
| Landowner: | CM |
| X-axis Bearing of plot: | [341]° |
| Data Confidentiality: Check one: <input checked="" type="checkbox"/> Public data <input type="checkbox"/> Private Data <input type="checkbox"/> Fuzz 100m <input type="checkbox"/> Fuzz 250m <input type="checkbox"/> Fuzz 500m | |
| Reason: If data not public why? | |
| Source of coordinates: <input type="checkbox"/> MAP <input checked="" type="checkbox"/> GPS GPS location in plot x=0 to 5, y=1,0,+1): x = 0 y = 0 (base of plot x=0, y=0) | |
| Coordinate system: <u>Coord. Units</u> <input checked="" type="checkbox"/> Lat/Long <input type="checkbox"/> UTM <input type="checkbox"/> StatePlane <input type="checkbox"/> deg <input type="checkbox"/> deg min <input type="checkbox"/> Other (specify): <input type="checkbox"/> m <input type="checkbox"/> ft | |
| Datum: <input checked="" type="checkbox"/> NAD83/WGS84 <input type="checkbox"/> NAD27 | |
| Latitude: 71.22356 | |
| Longitude: 81.69746 | |
| Coord. Accuracy: 4 m <input type="checkbox"/> ft -- 33 | |
| GPS File Name: 1149 | |
| Plot size for cover data: 0.1 (hectares) | |
| <input type="checkbox"/> Stems not sampled on this plot <input type="checkbox"/> Stems absent <input checked="" type="checkbox"/> Stems present Plot size stems: 0.1 (ha) | |
| Depth: (1-5): 4 | |
| Intensive modules: 2, 3, 8, 9 (EDIT IF MODIFIED) | |
| Camera No.: 2 | |
| Photo Nos.: C2-1075 | |

Plot placement: ☐ Representative ☒ RRTS ☐ Random ☐ Stratified Random

Diagram 

Key:  Plot origin (0,0) point  GPS location point  photo taken, with direction  location of permanent posts

NOTES: Include Layout (any unusual shape details), Location (directions and landscape context), Rationale (why here), and Veg Characterization (description of community, dominants, strata, BROWSE). Additional notes in space on back.

Layout: 2x5

Location: Park off of Top of the ledges Dr. Walk 100 m east into woods of the plot

Rationale: BRTS pt

Veg Char: Ash, Sugar Maple, Cherries

Under: Garlic mustard, Polygonum virginicum

*Definitions and values in CM PCAP FORM V. 1.0 and CVS Field Guide

OVER

Project Label: PCAPProject Name: OHHS2011Plot No.: 1149

Page 2 of 2

CLASSIFICATION

(FIT = excellent, good, fair, poor; CONF = high, med, low)

Fit and Confidence

Hydrogeomorphic class (WETLANDS ONLY):

☐ DEPRESSION

Fit=___ Conf=___

☐ IMPOUNDMENT ☐ Beaver ☐ Human

Fit=___ Conf=___

☐ RIVERLINE ☐ Headwater ☐ Mainstem ☐ Channel

Fit=___ Conf=___

☐ SLOPE (ground water hydrology or on a physical slope)

Fit=___ Conf=___

☐ FRINGING ☐ Reservoir ☐ Natural Lake

Fit=___ Conf=___

☐ COASTAL (specify subclass)

Fit=___ Conf=___

☐ BOG (strongly, moderately, weekly ombrotrophic)

Fit=___ Conf=___

Ohio EPA VIBI Plant Community Class (WETLANDS ONLY):

☐ FOREST ☐ swamp forest ☐ bog forest ☐ forest seep

Fit=___ Conf=___

☐ EMERGENT ☐ marsh ☐ wet meadow ☐ open bog

Fit=___ Conf=___

☐ SHRUB ☐ shrub swamp ☐ tall sh. bog ☐ tall sh. fen

Fit=___ Conf=___

MODIFIED NATURESERVE CLASS*

CODE (on separate form): DFit= good Conf= med

COMMUNITY NAME:

Mixed Forest

HOMOGENEITY

☒ Homogeneous☐ Compositional trend across the plot☐ Conspicuous inclusions☐ Irregular/pattern mosaic

STAND SIZE

☐ >1,000 x plot size☐ >100 x plot size☒ 10-100 x plot size☐ 3-10 x plot size☐ 1-3 x plot size☐ < plot size

DISTURBANCES

type* severity** yrs ago % of plot description

Human

Natural

Fire

Cut

Animal

Other

**L=low, ML=med low, M=med, MH=med high, H=high, VH=very high

Current Land Use: ForestFormer Land Use: MLK

HYDROLOGIC REGIME*

☒ Upland (seldom flooded)☐ Intermittently/seasonally saturated (seldom flooded)☐ Permanently/Semipermanent saturated (dry <1/yr, seldom flooded)☐ Occasionally flooded (<1/yr)☐ Temporarily flooded☐ Unknown

Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.)

Plot has some huge white oaks and some big old Ashes. Lots of Sugar Maples mixed throughout. Plot slopes down to a drainage ravine that ^{small} may be seasonally wet. Site may have been open field at one point. Deer browse is heavy, dirty on the plants. The ash look all to be ~~the~~ declining.

Rusted pipe still attached to something at back of plot.
Open field borders plot approx 50m on 2 sides.

Page 7 of 28

Page 1

Plot area (ha): 0.1

10



**Cleveland
Metroparks**

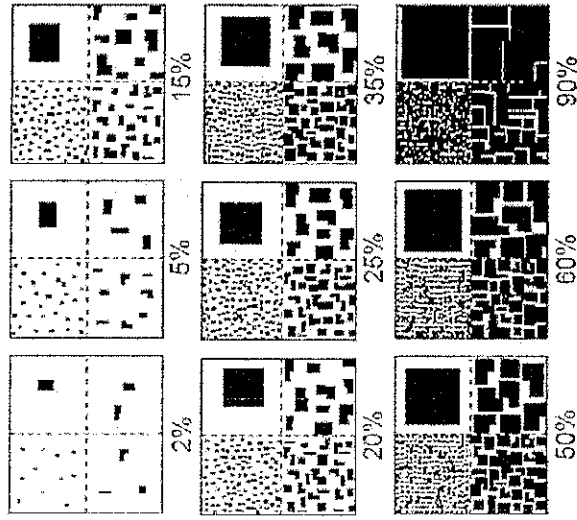
Br = Browse Level. Use cover classes to describe amount of browse per species over entire plot

Strata - Cov. entire plot

| T | S | H | (F) | (A) | Br | Species | C | Voucher # | depth | cov | depth | cov | depth | cov | depth | cov | depth | cov | depth | cov | depth | cov | depth | cov |
|----|---|----|-----|-----|----|--------------------------------|---|-----------|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|
| 6 | 5 | -2 | | | 10 | <i>Ostrya virginiana</i> | | | 4 | 5 | | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 6 | | 1 | | | 10 | <i>Liriodendron tulipifera</i> | | | 4 | 6 | 4 | | 2 | 6 | 4 | | | | 2 | 3 | 6 | 3 | 5 | 4 |
| 6 | | | | | | <i>Quercus alba</i> | | | 4 | 4 | | | | | | | | | | | | | | |
| 4 | 8 | | | | | <i>Acer saccharum</i> | | | 2 | 9 | 4 | | 4 | 4 | 4 | | | | 4 | 3 | 4 | 9 | 4 | 4 |
| | | | | | | <i>Pedophyllum polatum</i> | | | 4 | 2 | | | | | | 1 | 2 | | | | | | | |
| | | | | | | <i>Fraxinus seedlings</i> | | | 3 | 2 | 3 | | 3 | 2 | 3 | | | | 2 | 2 | 3 | 2 | 4 | |
| | | | | | | <i>Alliaria petiolata</i> | | | 4 | 2 | 4 | | 3 | 2 | 3 | | | 4 | 3 | 4 | 4 | 2 | | |
| | | | | | | <i>Arisaema triphyllum</i> | | | 2 | 2 | | | 2 | 2 | 3 | | | 2 | 2 | 2 | 2 | 2 | 2 | |
| -1 | 3 | | | | 3 | <i>Geranium macranthum</i> | | | 2 | 2 | 4 | | 4 | 4 | 2 | | | | 4 | 2 | 2 | 2 | 2 | |
| | | | | | 3 | <i>Polygonum virginianum</i> | | | 2 | 2 | 3 | | 2 | 4 | 2 | | | | | | 1 | 2 | 2 | |
| | | | | | 1 | <i>Acer seedlings</i> | | | 2 | 1 | | | 2 | 2 | 2 | | | | | | 1 | 1 | | |
| 2 | 2 | | | | 10 | <i>Rosa multiflora</i> | | | 2 | 2 | | | 3 | 2 | 2 | | | | | | 1 | 2 | | |
| | | | | | | <i>Lonicera merycoria</i> | | | | | | | | | | | | | | | | | | |
| 4 | 4 | 2 | | | 4 | <i>Circaea lotetiana</i> | | | | 4 | 2 | | | | 2 | 1 | | | 4 | 1 | 1 | 1 | 3 | 2 |
| 4 | 4 | 2 | | | 5 | <i>Prunus serotina</i> | | | | 4 | 6 | | 3 | 5 | 4 | | | 2 | 5 | 4 | | | | |
| 4 | 2 | | | | | <i>Magnolia acuminata</i> | | | 1 | 4 | | | | 2 | | | | | | | 2 | 2 | | |
| | | | | | 2 | <i>Lonicera mackii</i> | | | | | 3 | 2 | | | | | | | | | | | | |
| -4 | 3 | 2 | | | 10 | <i>Vitis aestivalis</i> | | | | | 2 | 3 | 2 | 4 | 2 | | | 1 | 4 | | | 1 | 2 | |
| 4 | 5 | -2 | | | 10 | <i>Fagus grandifolia</i> | | | | 2 | 4 | | 2 | 1 | | | | 4 | 7 | | | 4 | 4 | |
| | | | | | 1 | <i>Quercus seedlings</i> | | | 1 | 1 | | | 2 | 1 | | | | | 2 | 1 | 3 | 1 | 2 | |
| | | | | | 1 | <i>Carya cordiformis</i> | | | 1 | 1 | | | | | | | | | | | | | | |
| | | | | | 1 | <i>Viburnum dentatum</i> | | | 1 | 1 | | | | | | | | | | | 2 | 1 | | |
| 1 | | | | | | <i>Centaurea sp.</i> | | | 1 | 1 | | | | | | | | | | | | | | |
| 7 | | | | | | <i>Fraxinus americana</i> | | | X | | 2 | 4 | 4 | 2 | | | | | 2 | 7 | 2 | 7 | 2 | |
| | | | | | 1 | <i>Carya seedling</i> | | | | | | | 3 | 1 | 2 | | | | 4 | 1 | 1 | 1 | | |

EXAMPLES OF PERCENT OF AREA COVERED

The following graphic can be used for various data elements to convey "Amount" or "Quantity." **NOTE:** Within any given box, each quadrant contains the same total area covered, just different sized objects.



| cover class | % cover | midpoint |
|-------------|-----------------|----------|
| 1 | solitary or few | 0.0001 |
| 2 | 0-1% | 0.005 |
| 3 | 1-2% | 0.015 |
| 4 | 2-5% | 0.035 |
| 5 | 5-10% | 0.075 |
| 6 | 10-25% | 0.175 |
| 7 | 25-50% | 0.375 |
| 8 | 50-75% | 0.625 |
| 9 | 75-95% | 0.850 |
| 10 | 95-100% | 0.975 |

BROWSE RATING NARRATIVE DESCRIPTION

LOW OR NONE: there is no measurable browse line AND there are very few or no plants 1-m nested quadrat and intensive module. In general, low values relate to less than 10 percent, by numbers of stems browsed.

MEDIUM LOW values include evidence of browse at about 10 percent of the stems with no significant impact to plant reproduction evident. In this rating, plants are browsed but preferential species are observed to be reproducing in numbers that appear normal or near-normal in comparison to low browse areas. For example, trilliums may flower and fruit, but jewelweed and arrowwood viburnum exhibit browse.

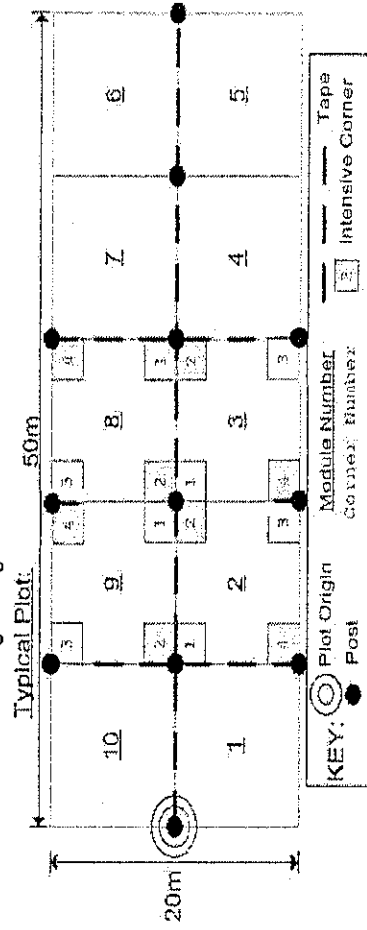
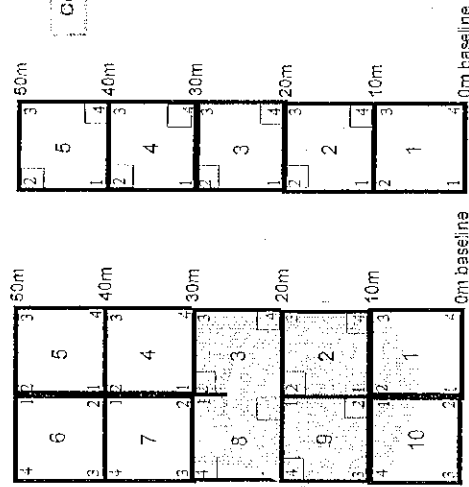
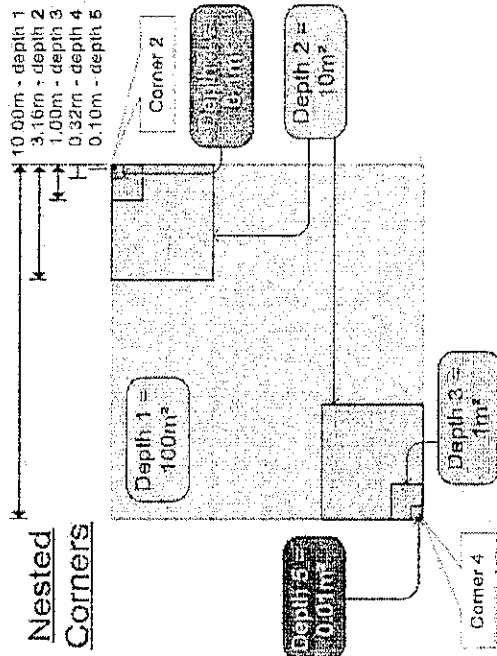
MEDIUM: browse affects greater than 10 percent and less than 25 percent of stems in the 1 m2 nested quadrat and intensive module. A browse line is usually

not evident or obvious for all classes and species of vegetation, but careful examination may show preferential browse and/or browse lines for some species of plants.

MEDIUM HIGH values include evidence of a browse line and 25 percent of stems browsed with very little vegetation regeneration evident. In this rating, for some species of plants, reproduction does not appear to occur or it is very severely limited.

HIGH: greater than 25 percent of the stems of plants in the 1 m2 nested quadrat and intensive module AND a browse line is evident.

VERY HIGH values include extensive browse conditions, where the browse line is very evident AND almost all seedlings and herbs are severely browsed or missing. Browse line may be 5 to 6 feet in height with no or little green growth beneath.



Page 7 of 8

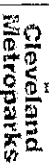
Plot no: 1149

Plot configuration: 2x5

Plot area (ha): 0.1

Visual est. %invasives entire site

10



Br = Browse Level. Use cover classes to describe amount of browse per species over entire plot

Estimate for the each intensive module:

| | depth | cov | depth | cov | depth | cov | depth | cov | depth | cov | depth | cov | depth | cov | depth | cov | depth | cov | depth | cov |
|---|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|
| R | 8 | 0 | 7 | 0 | 6 | 0 | 5 | 0 | 4 | 0 | 3 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |

C

[illegible]

| | | | | | |
|---|---|---|-----|-----|---|
| T | S | H | (E) | (A) | B |
|---|---|---|-----|-----|---|

[illegible]

| | | |
|----------------------|---|---|
| Protobucca americana | 2 | 2 |
| 1 | 1 | 1 |

[illegible]

| | | | | | | |
|----|--------------------------|---|---|--|--|--|
| 21 | <i>Prunus virginiana</i> | 1 | 3 | | | |
|----|--------------------------|---|---|--|--|--|

[illegible]

| | | | | | |
|---|---|--|---|---|---|
|  |  |  |  |  |  |
|---|---|--|---|---|---|

[illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible]

2000

200X 1000 A72

Handwritten: Anna Maria

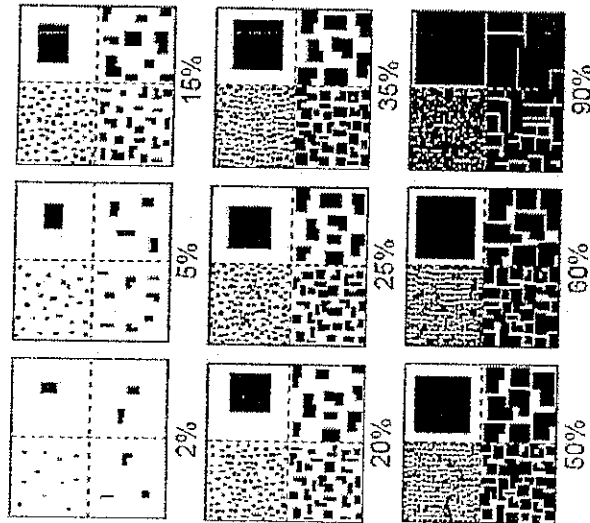
1. max height

[illegible][illegible][illegible][illegible]

Natural Resource Management FORM NR/2010-02a

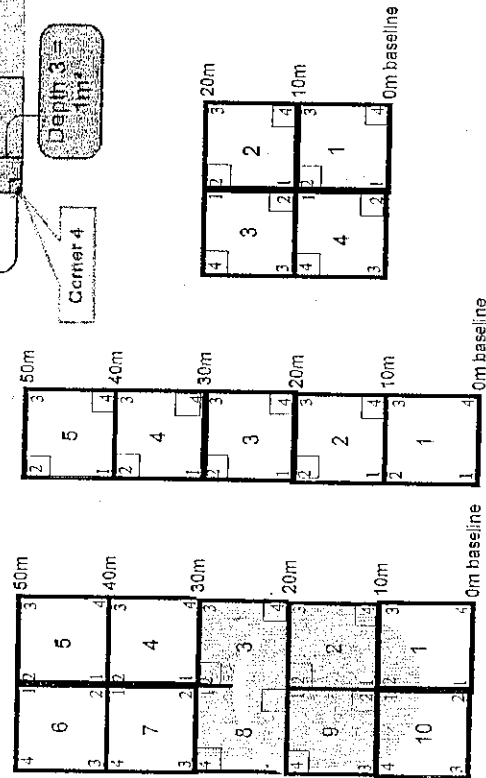
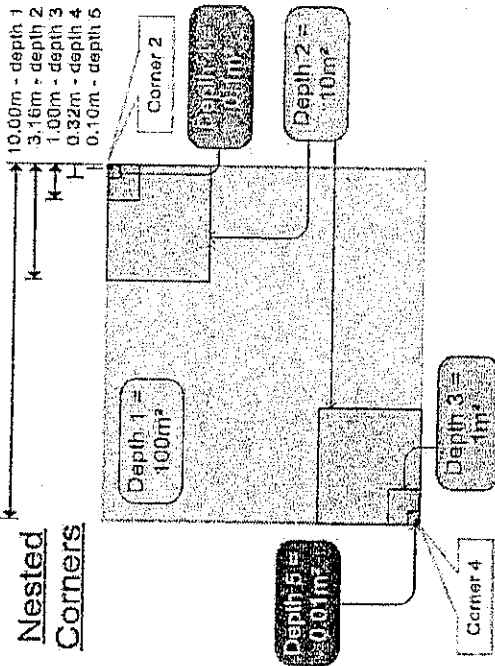
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| 7 | 25-50% | 0.375 |
| 8 | 50-75% | 0.625 |
| 9 | 75-95% | 0.850 |
| 10 | 95-100% | 0.975 |

Nested Corners



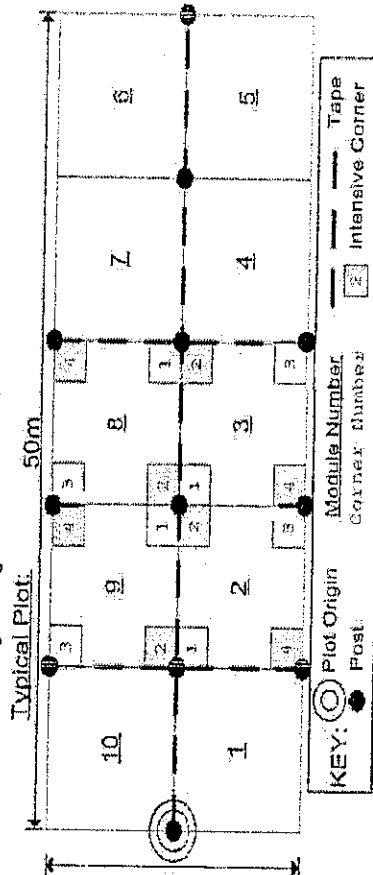
BROWSE RATING NARRATIVE DESCRIPTION

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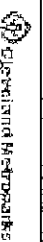
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VERY HIGH values include extensive browse conditions, where the browse line is very evident **AND** almost all seedlings and herbs are severely browsed or missing. Browse line may be 5 to 6 feet in height with no or little green growth beneath.



CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet



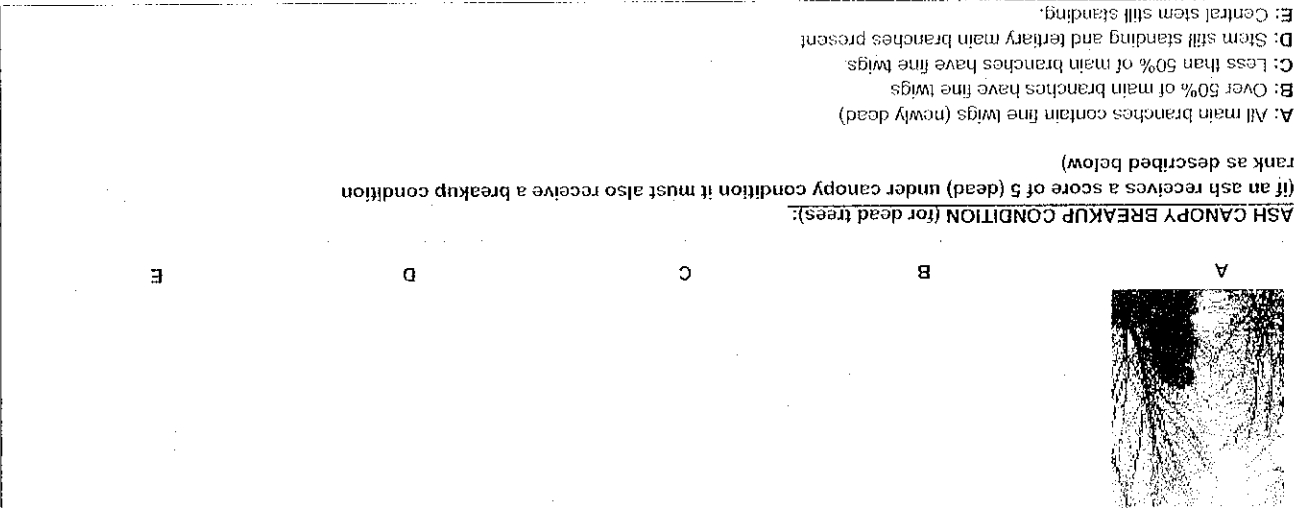
Project Label: PCAP Project Name: DIH2011 Plot No.: 1149 Page: 1 of 5

Explain subsample (additional room on back):

| mod # | species | c | voucher# | # stems 0.5-1m or super sample | % sub shrub clumps | # | size class (cm) woody stems > 1m | | | | | | | | | | | | |
|-------|-------------------------|---|----------|---|--------------------------|----|----------------------------------|------------|------------|-----------|------------|------------|------------|------------|------------|-------------|------------------------------|---|------|
| | | | | | | | 1 0-1 | 2 1-2.5 | 3 2.5-5 | 4 5-10 | 5 10-15 | 6 15-20 | 7 20-25 | 8 25-30 | 9 30-35 | 10 35-40 | 11 >40 (rected each tree) | | |
| 1 | Acer saccharum | | | | | II | 0 | 0 | 0 | 0 | | | | | | | | | |
| 1 | Liriodendron tulipifera | | | | | | | 0 | | | | | | | | | | 0 | 0 |
| 1 | standing dead | | | | | | | | | | | | | | | | | | |
| 1 | Fagus grandifolia | | | | | | | | 0 | | | | | | | | | | |
| 2 | Liriodendron tulipifera | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | 0 | |
| 2 | Acer saccharum | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| 2 | Ostrya virginiana | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| 2 | Vitis aestivalis | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| 2 | standing dead | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| 2 | Magnolia acuminata | | | | | | | | | 0 | | | | | | | | | |
| 2 | Prunus serotina | | | | | | | | | 0 | | | | | | | | | |
| 3 | Prunus serotina | | | | | | | | | 0 | | | | | | | | 0 | |
| 3 | Liriodendron tulipifera | | | | | | | | | 0 | | | | | | | | 0 | |
| 3 | Acer saccharum | | | | | | | | | 0 | 0 | | | | | | | | |
| 3 | standing dead | | | | | | | | | | | | | | | | | | 52.2 |
| 3 | Vitis aestivalis | | | | | | | | 0 | | | | | | | | | | |
| 3 | Acer rubrum | | | | | | | | | | | | | 0 | | | | | |
| 3 | Rosa multiflora | | | | | | | | | | | | | | | | | | |
| 3 | Prunus virginiana | | | 0 | | | | | | | | | | | | | | | |
| 3 | Rubus allegheniensis | | | 0 | | | | | | 0 | | | | | | | | | |
| 4 | Prunus serotina | | | | | | | | | 0 | 0 | 0 | 0 | 0 | | | | | |
| 4 | Ligustrum vulgare | | | | | | | | 0 | | | | | | | | | | |
| 4 | Ostrya virginiana | | | | | | | | | 0 | 0 | | | | | | | | |
| 4 | Prunus cerasus | | | | | | 0 | 0 | | 0 | | | | 0 | | | | | |

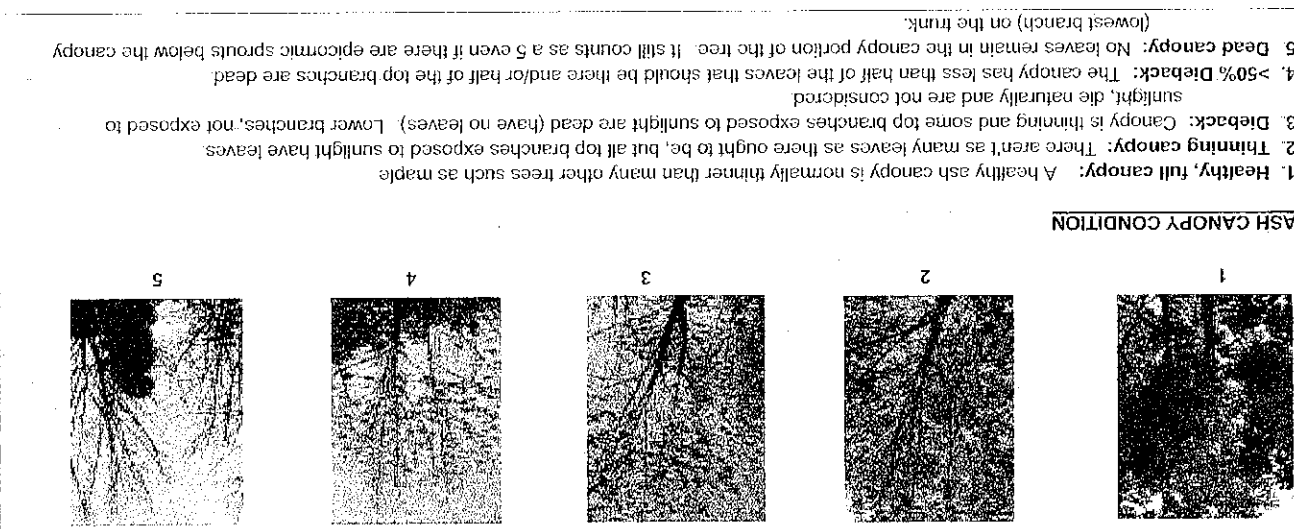
ASH CANOPY BREAKUP CONDITION (for dead trees):
 (if an ash receives a score of 5 (dead) under canopy condition it must also receive a breakup condition rank as described below)

A: All main branches contain fine twigs (newly dead)
 B: Over 50% of main branches have fine twigs
 C: Less than 50% of main branches have fine twigs
 D: Stem still standing and tertiary main branches present
 E: Central stem still standing.

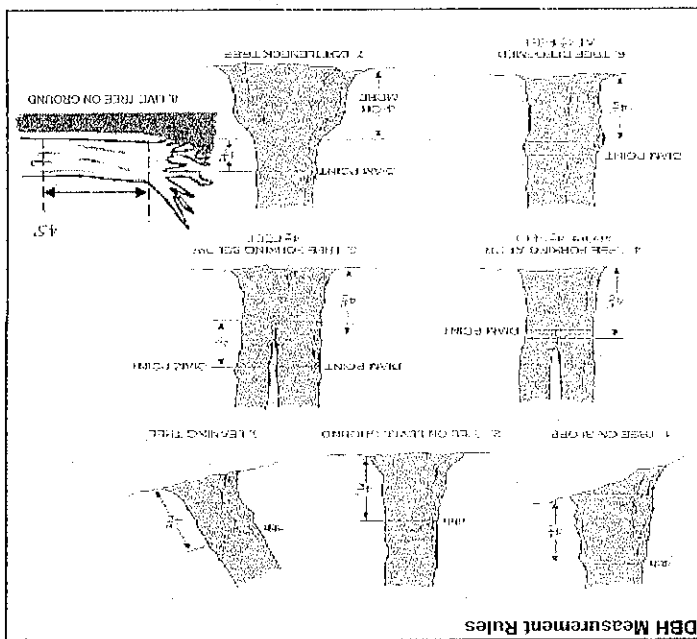


ASH CANOPY CONDITION

1. **Healthy, full canopy:** A healthy ash canopy is normally thinner than many other trees such as maple
 2. **Thinning canopy:** There aren't as many leaves as there ought to be, but all top branches exposed to sunlight have leaves
 3. **Dieback:** Canopy is thinning and some top branches exposed to sunlight are dead (have no leaves). Lower branches, not exposed to sunlight, die naturally and are not considered
 4. **>50% Dieback:** The canopy has less than half of the leaves that should be there and/or half of the top branches are dead
 5. **Dead canopy:** No leaves remain in the canopy portion of the tree. It still counts as a 5 even if there are epicormic sprouts below the canopy (lowest branch) on the trunk.



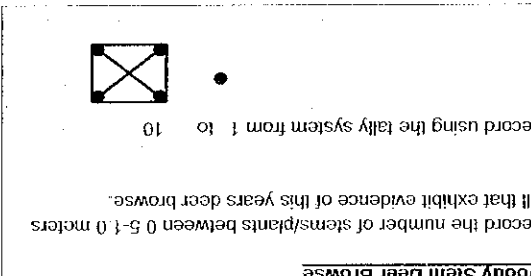
DBH Measurement Rules



Woody Stem Deer Browse

Record the number of stems/plants between 0.5-1.0 meters tall that exhibit evidence of this years deer browse.

Record using the tally system from 1 to 10



CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

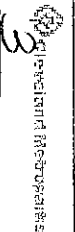
Project Label: PCAP

Project Name: OH 200

Plot No.: 149

Page: 2

of

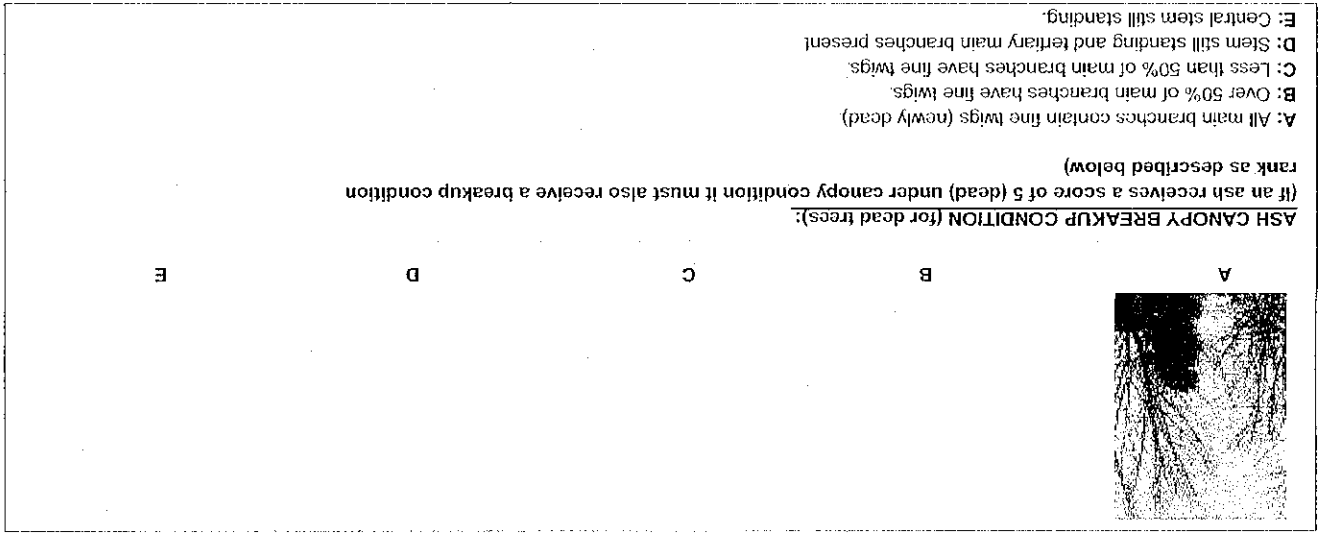


Explain subsample (additional room on back):

| mod # | species | c | voucher# | # stems 0.5-1m browsed | % sub or super sample | # shrub clumps | size class (cm) | woody stems > 1m | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|-------|-------------------------|---|----------|------------------------------|-----------------------------|----------------------|-----------------|------------------|---|---|---|---|---|---|---|---|---|----|----|
| 4 | Fraxinus americana | | | | | | | | | | | | | | | | | | |
| 4 | standing dead | | | | | | | | | | | | | | | | | | |
| 4 | Acer saccharum | | | | | | | | | | | | | | | | | | |
| 4 | Acerus alba | | | | | | | | | | | | | | | | | | |
| 4 | Lonicera maclei | | | | | | | | | | | | | | | | | | |
| 5 | Fagus grandifolia | | | | | | | | | | | | | | | | | | |
| 5 | Acer saccharum | | | | | | | | | | | | | | | | | | |
| 5 | standing dead | | | | | | | | | | | | | | | | | | |
| 5 | Ostrya virginiana | | | | | | | | | | | | | | | | | | |
| 5 | Fraxinus americana | | | | | | | | | | | | | | | | | | |
| 5 | Acerus alba | | | | | | | | | | | | | | | | | | |
| 6 | Acer saccharum | | | | | | | | | | | | | | | | | | |
| 6 | standing dead | | | | | | | | | | | | | | | | | | |
| 6 | Prunus serotina | | | | | | | | | | | | | | | | | | |
| 6 | Acer rubrum | | | | | | | | | | | | | | | | | | |
| 6 | Fraxinus americana | | | | | | | | | | | | | | | | | | |
| 6 | Fagus grandifolia | | | | | | | | | | | | | | | | | | |
| 6 | Lindodendron tulipifera | | | | | | | | | | | | | | | | | | |
| 6 | Ostrya virginiana | | | | | | | | | | | | | | | | | | |
| 7 | Acer saccharum | | | | | | | | | | | | | | | | | | |
| 7 | Fraxinus americana | | | | | | | | | | | | | | | | | | |
| 7 | standing dead | | | | | | | | | | | | | | | | | | |
| 7 | Fagus grandifolia | | | | | | | | | | | | | | | | | | |
| 7 | Ostrya virginiana | | | | | | | | | | | | | | | | | | |

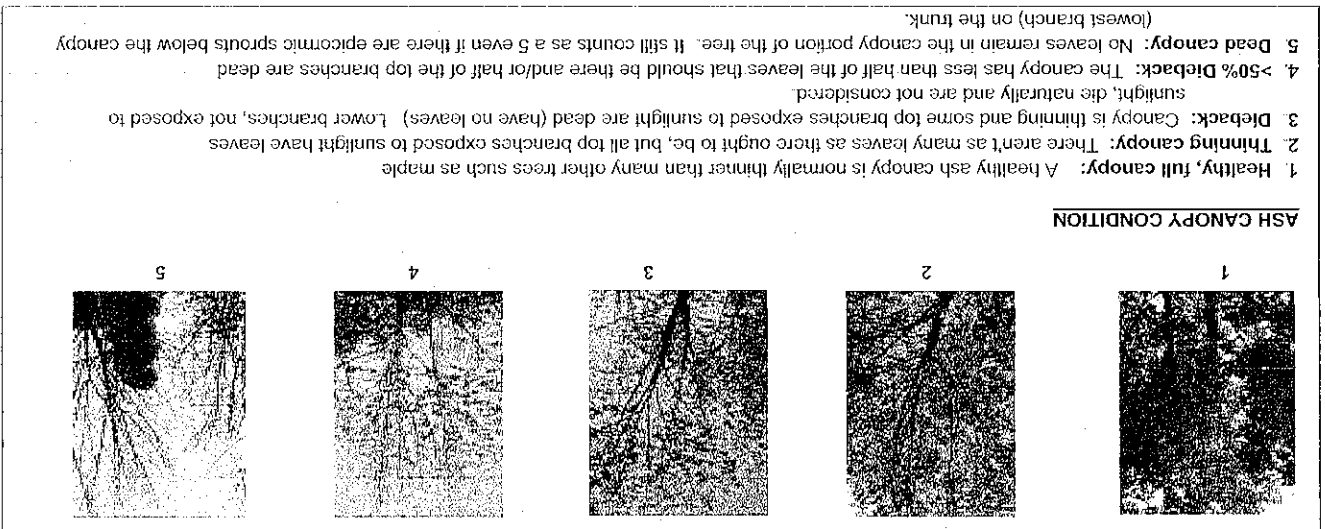
ASH CANOPY BREAKUP CONDITION (for dead trees):
 (If an ash receives a score of 5 (dead) under canopy condition it must also receive a breakup condition rank as described below)

A: All main branches contain fine twigs (newly dead)
 B: Over 50% of main branches have fine twigs.
 C: Less than 50% of main branches have fine twigs.
 D: Stem still standing and tertiary main branches present
 E: Central stem still standing.

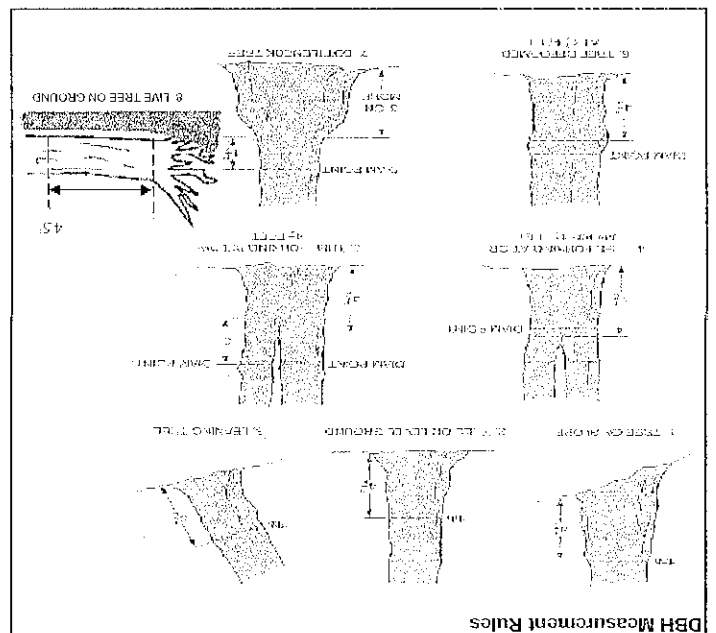


ASH CANOPY CONDITION

1. **Healthy, full canopy:** A healthy ash canopy is normally thinner than many other trees such as maple
 2. **Thinning canopy:** There aren't as many leaves as there ought to be, but all top branches exposed to sunlight have leaves
 3. **Dieback:** Canopy is thinning and some top branches exposed to sunlight are dead (have no leaves). Lower branches, not exposed to sunlight, die naturally and are not considered.
 4. **>50% Dieback:** The canopy has less than half of the leaves that should be there and/or half of the top branches are dead
 5. **Dead canopy:** No leaves remain in the canopy portion of the tree. It still counts as a 5 even if there are epicormic sprouts below the canopy (lowest branch) on the trunk.



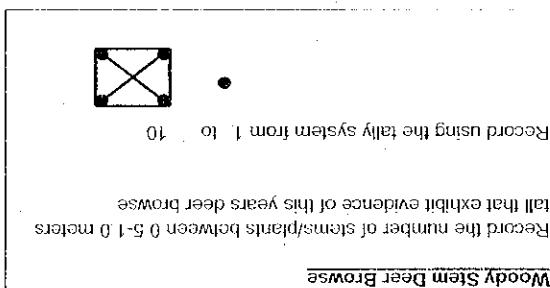
DBH Measurement Rules



Woody Stem Deer Browse

Record the number of stems/plants between 0.5-1.0 meters tall that exhibit evidence of this years deer browse

Record using the tally system from 1 to 10



CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

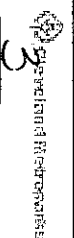
Project Label: PCAP

Project Name: D.H. 2011

Plot No.: 1149

Page: 3

of



Explain subsample (additional room on back):

| mod # | species | c | voucher# | # stems 0.5-1m browsed | % sub or super sample | # shrub clumps | size class (cm) woody stems > 1m | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|-------|------------------------|---|----------|------------------------------|-----------------------------|----------------------|----------------------------------|---|---|---|---|---|---|---|---|---|----|------------|
| 7 | Linodendron tulipifera | | | | | | | | | | | | | | | | | |
| 8 | Larrea ovata | | | | | | | | | | | | | | | | | |
| 8 | Acer saccharum | | | | | | | | | | | | | | | | | |
| 8 | Fagus grandifolia | | | | | | | | | | | | | | | | | |
| 8 | Prunus serotina | | | | | | | | | | | | | | | | | |
| 8 | Fraxinus americana | | | | | | | | | | | | | | | | | 58.3 |
| 8 | standing dead | | | | | | | | | | | | | | | | | |
| 8 | Ostrya virginiana | | | | | | | | | | | | | | | | | |
| 9 | Ostrya virginiana | | | | | | | | | | | | | | | | | |
| 9 | Fagus grandifolia | | | | | | | | | | | | | | | | | |
| 9 | Acer saccharum | | | | | | | | | | | | | | | | | |
| 9 | standing dead | | | | | | | | | | | | | | | | | |
| 9 | Podocarpus virgin. | | | | | | | | | | | | | | | | | |
| 9 | Fraxinus americana | | | | | | | | | | | | | | | | | 43.6, 43.8 |
| 9 | Linodendron tulipifera | | | | | | | | | | | | | | | | | |
| 10 | Linodendron tulipifera | | | | | | | | | | | | | | | | | 44.9 |
| 10 | Acer saccharum | | | | | | | | | | | | | | | | | |
| 10 | Vitis mestivus | | | | | | | | | | | | | | | | | |
| 10 | standing dead | | | | | | | | | | | | | | | | | |

ASH CANOPY BREAKUP CONDITION (for dead trees):
 (if an ash receives a score of 5 (dead) under canopy condition it must also receive a breakup condition rank as described below)

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2. **>50% Dieback:** The canopy has less than half of the leaves that should be there and/or half of the top branches are dead.

3. **Dead canopy:** No leaves remain in the canopy portion of the tree. It still counts as a 5 even if there are epicormic sprouts below the canopy (lowest branch) on the trunk.

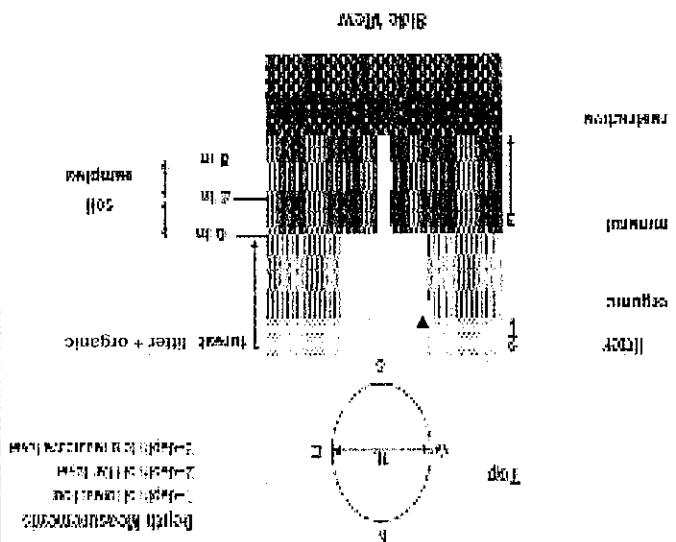
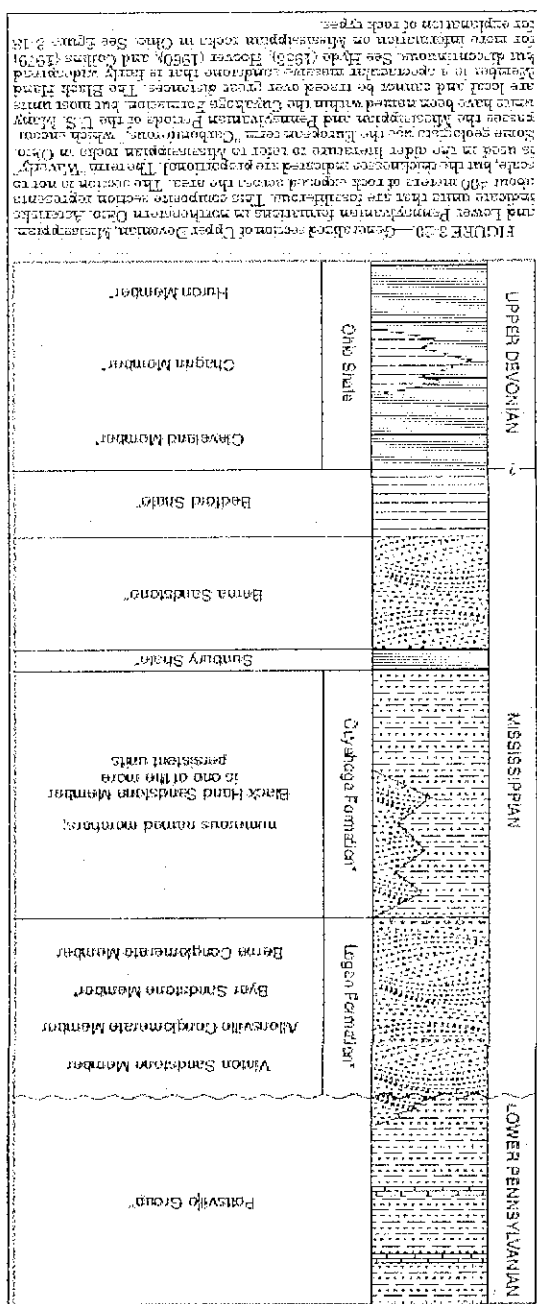
DBH Measurement Rules

1. **TRUNK MEASUREMENT**
 a. **MEASURE AT 1.3m**
 b. **MEASURE AT 1.3m**
 c. **MEASURE AT 1.3m**
 d. **MEASURE AT 1.3m**
 e. **MEASURE AT 1.3m**
 f. **MEASURE AT 1.3m**
 g. **MEASURE AT 1.3m**
 h. **MEASURE AT 1.3m**
 i. **MEASURE AT 1.3m**
 j. **MEASURE AT 1.3m**
 k. **MEASURE AT 1.3m**
 l. **MEASURE AT 1.3m**
 m. **MEASURE AT 1.3m**
 n. **MEASURE AT 1.3m**
 o. **MEASURE AT 1.3m**
 p. **MEASURE AT 1.3m**
 q. **MEASURE AT 1.3m**
 r. **MEASURE AT 1.3m**
 s. **MEASURE AT 1.3m**
 t. **MEASURE AT 1.3m**
 u. **MEASURE AT 1.3m**
 v. **MEASURE AT 1.3m**
 w. **MEASURE AT 1.3m**
 x. **MEASURE AT 1.3m**
 y. **MEASURE AT 1.3m**
 z. **MEASURE AT 1.3m**

Woody Stem Deer Browse

Record the number of stems/plants between 0.5-1.0 meters tall that exhibit evidence of this years deer browse.

Record using the tally system from 1 to 10



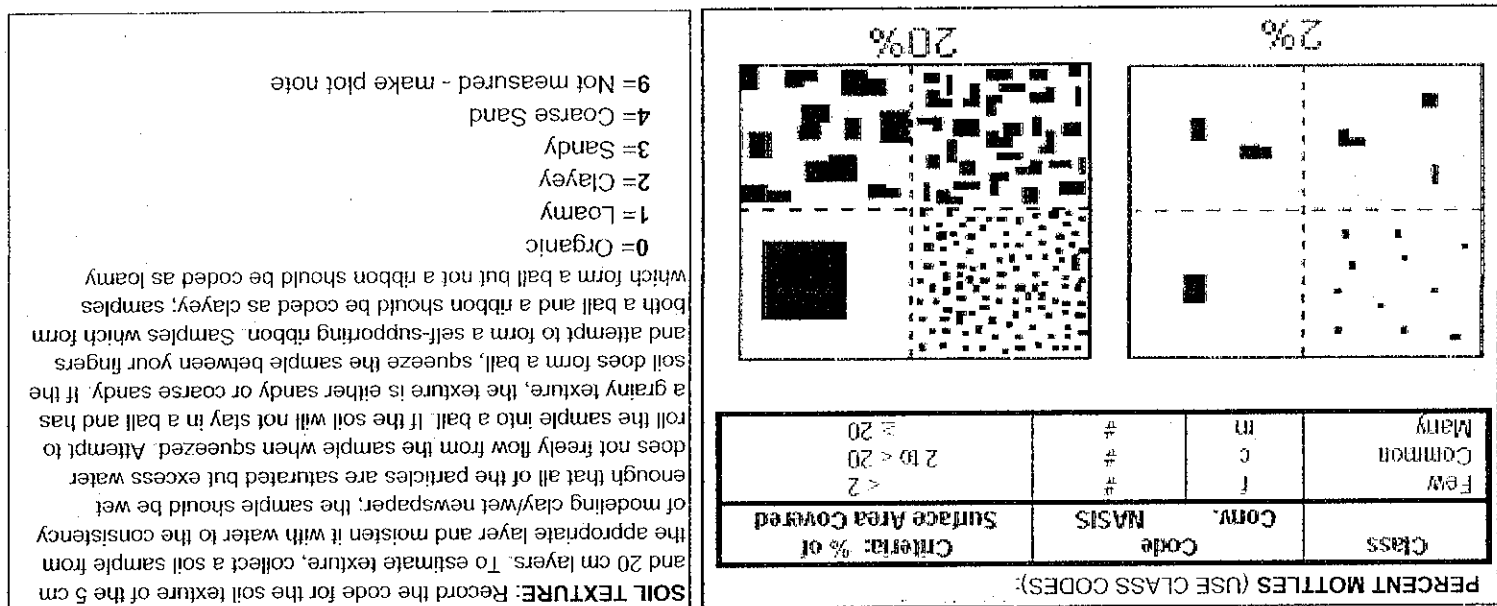
| | |
|------------------------------|---|
| STRATUM | GENERAL FORM |
| Tree (generally >5 m) | Tree (overstory), very tall shrubs*, liana, epiphyte) |
| Shrub (generally 0.5 to 5 m) | Tree (sapling), shrub, liana, epiphyte) |
| Herb (field) | Herb, dwarf-shrub**, tree (seedling***) |
| Floating | Floating |
| Aquatic (submerged) | Submerged |

*) Very tall shrubs are sometimes included in the tree stratum

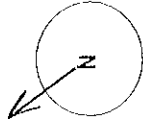
**) Can also include seedlings of shrubs, i.e. all shrubs <0.5 m

***) Tree seedlings are often defined as up to 1.4 m height or as <2.5 cm DBH in which case they would span the herb and shrub layers.

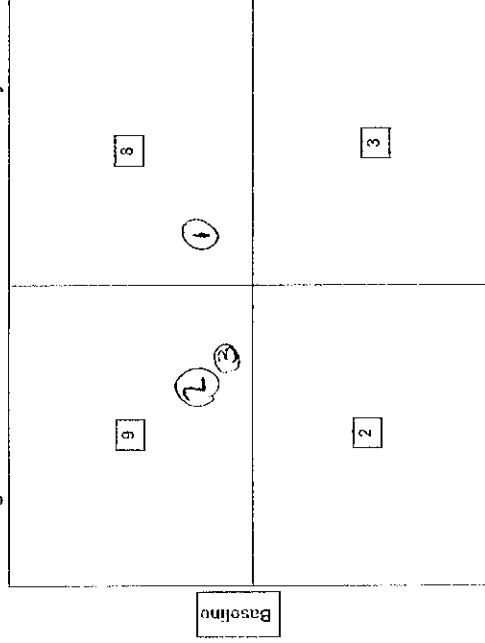
| | |
|---------------------|--|
| STRATUM | Tree (generally >5 m) epiphyte) Tree (overstory), very tall shrubs*, liana, epiphyte) Shrub (generally 0.5 to 5 m) Herb (field) Floating Aquatic (submerged) |
| GENERAL FORM | Submerged Floating Herb, dwarf-shrub*, tree (seedling*) Tree (sapling), shrub, liana, epiphyte) |



| Tree Module ID | Species | DBH (cm) | Ht @ DBH | Ash condition | *Dead condition | # Exit holes | Epicormic present | Woodpecker holes |
|----------------|---------|--------------------|----------|---------------|-----------------|--------------|-------------------|------------------|
| 8 | 1 | Fraxinus americana | 58.3 | 2 | - | 0 | 0 | 1 |
| 9 | 2 | Fraxinus americana | 43.6 | 3 | - | 0 | 0 | 1 |
| 9 | 3 | Fraxinus americana | 43.8 | 2 | - | 0 | 0 | 0 |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
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| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |
| 25 | | | | | | | | |



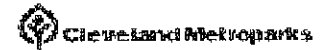
*** Change intensive module numbers when necessary



Map all ash trees ≥ 10cm in each module using Tree ID number

* If Ash Condition scores 5 (dead) provide breakup score (A-E)
 Count EAB exit holes 1.25m² x ≥ 1.5m
 Woodpecker and epicormic marked present (1) or absent (0)

CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey



| Tier 1: Early detection/ Rapid response | | Presence | | | | GPS |
|---|-----------------------------|-------------|----|----|----|----------|
| | | NE | SE | SW | NW | |
| Microstegium vimineum | Japanese stiltgrass | | | | | |
| Ranunculus ficaria | Lesser Celandine | | | | | |
| Cynanchum louiseae (vine) | Black Swallow-wort | | | | | |
| Butomus umbellatus (wetland) | Flowering Rush | | | | | |
| Heracleum mantegazzianum | Giant Hogweed | | | | | |
| Tier 2: Assess as Needed | | # of Plants | | | | comments |
| | | NE | SE | SW | NW | |
| Acer platanoides | Norway Maple | | | | | |
| Ailanthus altissima | Tree of Heaven | | | | | |
| Lonicera japonica (vine) | Japanese Honeysuckle | | | | | |
| Lythrum salicaria (wetland) | Purple Loosestrife | | | | | |
| Aegopodium podagraria (G-cover) | Bishop's Goutweed | | | | | |
| Celastrus orbiculatus (vine) | Asian Bittersweet | | | | | |
| Torilis sp. | Hedgeparsley | | | | | |
| Conium maculatum | Poison Hemlock | | | | | |
| Rhamnus cathartica | Common Buckthorn (shrub) | | | | | |
| Berberis thunbergii | Japanese Barberry (shrub) | | | | | |
| Alnus glutinosa | European Alder | | | | | |
| Dipsacus laciniatus | Cut-leaf Teasel | | | | | |
| Elaeagnus umbellata | Autumn Olive (shrub) | | | | | |
| Lonicera maackii | Amur Honeysuckle (shrub) | | | / | / | |
| Euonymus fortunei | Wintercreeper | | | | | |
| Tier 3: Presence is of Interest | | # of Plants | | | | comments |
| | | NE | SE | SW | NW | |
| Convallaria majalis (G-cover) | Lily of the Valley | | | | | |
| Coronilla varia (G-cover) | Crown Vetch | | | | | |
| Eleutherococcus pentaphyllus | Five-leaf Aralia (shrub) | | | | | |
| Pachysandra terminalis (G-cover) | Japanese Pachysandra | | | | | |
| Philadelphus coronarius | Mock Orange (shrub) | | | | | |
| Pulmonaria officinalis (G-cover) | Lungwort | | | | | |
| Rubus phoenicolasius | Wineberry | | | | | |
| Iris pseudacorus (wetland) | Yellow Flag Iris | | | | | |
| Ornithogalum umbellatum | Star of Bethlehem | | | | | |
| Viburnum opulus var. opulus | European Cranberry (shrub) | | | | | |
| Viburnum plicatum | Doublefile Viburnum (shrub) | | | | | |
| Tier 4: Widespread and abundant | | Presence | | | | comments |
| | | NE | SE | SW | NW | |
| Alliaria petiolata | Garlic Mustard | X | X | X | X | |
| Ligustrum vulgare | Common Privet (shrub) | X | X | X | X | |
| L. morrowii, L. tatarica | Bush Honeysuckles (shrub) | | X | X | | |
| Phalaris arundinacea | Reed Canarygrass | | | | | |
| Phragmites australis (wetland) | Phragmites | | | | | |
| Polygonum cuspidatum | Japanese Knotweed | | | | | |
| Frangula alnus | Glossy Buckthorn (shrub) | | X | | | |
| Rosa multiflora | Multiflora Rose (shrub) | X | X | X | X | |
| Typha angustifolia, T. x.glauca | Cattails (wetland) | | | | | |
| Cirsium arvense | Canada thistle | X | X | X | | |
| Dipsacus fullonum | Common Teasel | | | | | |
| Hesperis matronalis | Dame's Rocket | | | | | |
| Vinca minor (G-cover) | Periwinkle | | | | | |

Presence
X: yes

of Plants
1: 1-10
2: 11-50.
3: 51-100
4: 101-1,000
5: >1,000

of Plants
1: 1-10
2: 11-50.
3: 51-100
4: 101-1,000
5: >1,000

Presence
X: yes

Note: For Ground-cover plants record "stem #" but in comment field describe # of colonies and patch size (S,M, L)

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (initial):

Site ID: PCAP H 1149

DATE: 07/14/2011

Location:

☐ AA Center
 ☒ N
 ☐ S
 ☐ E
 ☐ W

Fill in bubble(s) if plot(s) could not be sampled and flag →

☐ Plot 1

 ☐ Plot 2

 ☒ Plot 3

Buffer Natural Cover Strata

Fill in bubbles for all that apply: Canopy Type: D = Deciduous; E = Evergreen; Leaf Type: B = Broadleaf; N = Needle Leaf; Absent: No tree canopy.

Strata Section: Fill in appropriate cover class bubble for each strata type for each plot 0 = Absent; 1 = Sparse (<10%); 2 = Moderate (10-40%); 3 = Heavy (40-75%); 4 = Very Heavy (>75%)

| Buffer Plot 1 | Canopy Type: <input type="radio"/> D <input type="radio"/> E | Absent: <input type="radio"/> | Leaf Type: <input type="radio"/> B <input type="radio"/> N | Flag | Buffer Plot 2 | Canopy Type: <input type="radio"/> D <input type="radio"/> E | Absent: <input type="radio"/> | Leaf Type: <input type="radio"/> B <input type="radio"/> N | Flag | Buffer Plot 3 | Canopy Type: <input type="radio"/> D <input type="radio"/> E | Absent: <input type="radio"/> | Leaf Type: <input type="radio"/> B <input type="radio"/> N | Flag |
|---------------------------------------|--|-------------------------------|--|------|---------------------------------------|--|-------------------------------|--|------|---------------------------------------|--|-------------------------------|--|------|
| Big Trees (>0.3m DBH) | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | | Big Trees (>0.3m DBH) | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | | Big Trees (>0.3m DBH) | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | |
| Small Trees (<0.3m DBH) | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | | Small Trees (<0.3m DBH) | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | | Small Trees (<0.3m DBH) | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | |
| Woody Shrubs, Saplings (0.5m-5m HIGH) | <input type="radio"/> 0 <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | | Woody Shrubs, Saplings (0.5m-5m HIGH) | <input type="radio"/> 0 <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | | Woody Shrubs, Saplings (0.5m-5m HIGH) | <input type="radio"/> 0 <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | |
| Woody Shrubs, Saplings (<0.5m HIGH) | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | | Woody Shrubs, Saplings (<0.5m HIGH) | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | | Woody Shrubs, Saplings (<0.5m HIGH) | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | |
| Herbs, Forbs and Grasses | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | | Herbs, Forbs and Grasses | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | | Herbs, Forbs and Grasses | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | |
| Bare ground | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | | Bare ground | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | | Bare ground | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | |
| Litter, duff | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | | Litter, duff | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input checked="" type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | | Litter, duff | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | |
| Rock | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | | Rock | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | | Rock | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | |
| Water | <input checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | | Water | <input checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | | Water | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | |
| Submerged Vegetation | <input checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | | Submerged Vegetation | <input checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | | Submerged Vegetation | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | |

Stressor Presence/Absence - Confirm that a filled data bubble indicates presence and an unfilled bubble indicates absence by filling this bubble. ☒

| Residential and Urban Stressors | | | | | Hydrology Stressors | | | | | Agricultural & Rural Stressors | | | | |
|---------------------------------|---|---|---|------|--|---|---|---|------|--|---|---|---|------|
| Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag |
| Road - gravel | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | | Ditches, Channelization | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | | Pasture/Hay | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | |
| Road - two lane | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | | Dike/Dam/Road/RR Bed (IMPEDE FLOW) | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | | Range | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | |
| Road - four lane | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | | Water Level Control Structure | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | | Row Crops | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | |
| Parking Lot/Pavement | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | | Excavation, Dredging | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | | Fallow Field (RECENT-RESTING ROW CROP FIELD) | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | |
| Golf Course | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | | Fill/Spoil Banks | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | | Fallow Field (OLD - GRASS, SHRUBS, TREES) | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | |
| Lawn/Park | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | | Freshly Deposited Sediment (UNVEGETATED) | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | | Nursery | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | |
| Suburban Residential | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | | Soil Loss/Root Exposure | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | | Dairy | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | |
| Urban/Multifamily | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | | Wall/Riprap | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | | Orchard | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | |
| Landfill | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | | Inlets, Outlets | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | | Confined Animal Feeding | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | |
| Dumping | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | | Point Source/Pipe (EFFLUENT OR STORMWATER) | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | | Rural Residential | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | |
| Trash | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | | Impervious surface input (SHEETFLOW) | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | | Gravel Pit | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | |
| Other: _____ | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | | Other: _____ | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | | Irrigation | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | |
| Other: _____ | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | | Other: _____ | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | | Other: _____ | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | |

| Industrial Development Stressors | | | | | Habitat/Vegetation Stressors | | | | | | | | | |
|----------------------------------|---|---|---|------|--|---|---|---|------|--|---|---|---|------|
| Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag |
| Oil Drilling | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | | Forest Clear Cut | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | | Herbicide Use | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | |
| Gas Wells | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | | Forest Selective Cut | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | | Mowing/Shrub Cutting | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | |
| Mine (surface) | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | | Tree Plantation | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | | Trails | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | |
| Mine (underground) | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | | Tree Canopy Herbivory (INSECT) | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | | Soil Compaction (ANIMAL OR HUMAN) | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | |
| Military | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | | Shrub Layer Browsed (WILD OR DOMESTIC) | <input checked="" type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 | | | | Offroad vehicle damage | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | |
| Other: _____ | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | | Highly Grazed Grasses (OVERALL <7" HIGH) | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | | Soil erosion (FROM WIND, WATER OR OVERUSE) | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | |
| Other: _____ | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | | Recently Burned Forest Canopy | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | | Other: _____ | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | |
| Other: _____ | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | | Recently Burned Grassland (BLACKLINED) | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | | Other: _____ | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 | | | |

Flag codes: K = No measurement made, U = Suspect measurement, F1, F2, etc. = misc. flags assigned by each field crew.

Explain all flags in comment section on the back of this form

2428168304

Buffer Sample Plots 05/27/2011

| FORM B-1: BUFFER SAMPLE PLOTS - TARGETED ALIEN SPECIES (Back) | | | | | | | | | | | | | | | |
|--|---|---|---|------|-----------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Site ID: RAP H 1149 DATE: 07/19/2011 | | | | | | | | | | | | | | | |
| <input checked="" type="checkbox"/> Confirm a filled data bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble | | | | | | | | | | | | | | | |
| Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Purple Loosestrife | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Johnson Grass |
| | | | | | Water hyacinth | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | |
| Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Yellow Floating Heart | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Muhly Rose |
| | | | | | Giant Salvinia | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | <input type="checkbox"/> |
| Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Garlic Mustard | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Himalayan Blackberry |
| | | | | | Poison Hemlock | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | <input type="checkbox"/> |
| Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Mile-A-Minute Weed | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Other: |
| | | | | | Bird-foot Trefoil | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | <input type="checkbox"/> |
| Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Canada Thistle | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Other: |
| | | | | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | <input type="checkbox"/> |

Provide GPS coordinates at the center of the Buffer Plot (#3) at the far end of each Buffer Transect and for the Buffer Plot at the AA CENTER. Indicate the location of the plot coordinates by filling in the appropriate bubble.

If Buffer Plot 3 can not be accessed, take the coordinates at the nearest practicable location ALONG THE TRANSECT. This is important because all Buffer Plots are centered on the Buffer Transects and the coordinates will indicate the location of the transect. Fill in the "nearest practicable location" bubble; fill in the flag box, and describe where the coordinates were taken and why in the comment section below. The coordinates of the nearest practicable location can be either placed as close to the center of Plot 3 as possible or at the center of the last accessible Buffer Plot.

Location of coordinates (choose one):
☐ AA CENTER ☐ N3 ☐ S3 ☐ E3 ☐ W3 ☒ Nearest practicable location (flag and comment below)

Latitude North 41.22443 Longitude West 081.69740
 Use Decimal Degrees; NAD83

| Flag | Comments |
|------|--|
| 1 | Buffer plot 3 not sampled b/c it landed on private property |
| 2 | Buffer plot 2 - took GPS pts here b/c buffer plot 3 lands off of park property |

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (initial):

Site ID: PCAP H 1149

DATE: 07/14/2011

Location:

☐ AA Center
 ☐ N
 ☐ S
 ☐ E
 ☒ W

Fill in bubble(s) if plot(s) could not be sampled and flag →

☐ Plot 1

 ☐ Plot 2

 ☐ Plot 3

Buffer Natural Cover Strata

Fill in bubbles for all that apply: Canopy Type: D = Deciduous; F = Evergreen; L = Leaf Type: B = Broadleaf; N = Needle Leaf; Absent: No tree canopy.

Strata Section: Fill in appropriate cover class bubble for each strata type for each plot. 0 = Absent, 1 = Sparse (<10%); 2 = Moderate (10-40%); 3 = Heavy (40-75%); 4 = Very Heavy (>75%)

| Buffer Plot 1 | Canopy Type: <input type="radio"/> D <input type="radio"/> F <input type="radio"/> Absent: <input type="radio"/> | Leaf Type: <input type="radio"/> B <input type="radio"/> N <input type="radio"/> Absent: <input type="radio"/> | Flag | Buffer Plot 2 | Canopy Type: <input type="radio"/> D <input type="radio"/> F <input type="radio"/> Absent: <input type="radio"/> | Leaf Type: <input type="radio"/> B <input type="radio"/> N <input type="radio"/> Absent: <input type="radio"/> | Flag | Buffer Plot 3 | Canopy Type: <input type="radio"/> D <input type="radio"/> F <input type="radio"/> Absent: <input type="radio"/> | Leaf Type: <input type="radio"/> B <input type="radio"/> N <input type="radio"/> Absent: <input type="radio"/> | Flag |
|---------------------------------------|--|--|------|---------------------------------------|--|--|------|---------------------------------------|--|--|------|
| Big Trees (>0.3m DBH) | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4 | | Big Trees (>0.3m DBH) | <input type="radio"/> 0 <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4 | | Big Trees (>0.3m DBH) | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4 | |
| Small Trees (<0.3m DBH) | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4 | | Small Trees (<0.3m DBH) | <input checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4 | | Small Trees (<0.3m DBH) | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input checked="" type="radio"/> 4 | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input checked="" type="radio"/> 4 | |
| Woody Shrubs, Saplings (0.5m-5m HIGH) | <input checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | Woody Shrubs, Saplings (0.5m-5m HIGH) | <input checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | Woody Shrubs, Saplings (0.5m-5m HIGH) | <input type="radio"/> 0 <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | |
| Woody Shrubs, Saplings (<0.5m HIGH) | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | Woody Shrubs, Saplings (<0.5m HIGH) | <input checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | Woody Shrubs, Saplings (<0.5m HIGH) | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | |
| Herbs, Forbs and Grasses | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | Herbs, Forbs and Grasses | <input type="radio"/> 0 <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | Herbs, Forbs and Grasses | <input type="radio"/> 0 <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | |
| Bare ground | <input checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | Bare ground | <input checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | Bare ground | <input checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | |
| Litter, duff | <input type="radio"/> 0 <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | Litter, duff | <input checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | Litter, duff | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input checked="" type="radio"/> 4 | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | |
| Rock | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | Rock | <input checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | Rock | <input checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | |
| Water | <input checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | Water | <input checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | Water | <input checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | |
| Submerged Vegetation | <input checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | Submerged Vegetation | <input checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | | Submerged Vegetation | <input checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | |

Stressor Presence/Absence - Confirm that a filled data bubble indicates presence and an unfilled bubble indicates absence by filling this bubble.

| Residential and Urban Stressors | | | | | Hydrology Stressors | | | | | Agricultural & Rural Stressors | | | | |
|---------------------------------|--|---|---|------|--|---|---|---|------|--|---|---|---|------|
| Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag |
| Road - gravel | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Ditches, Channelization | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Pasture/Hay | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | |
| Road - two lane | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Dike/Dam/Road/RR Bed (IMPEDE FLOW) | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Range | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | |
| Road - four lane | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Water Level Control Structure | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Row Crops | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | |
| Parking Lot/Pavement | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Excavation, Dredging | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Fallow Field (RECENT-RESTING ROW CROP FIELD) | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | |
| Golf Course | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Fill/Spoil Banks | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Fallow Field (OLD - GRASS, SHRUBS, TREES) | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | |
| Lawn/Park | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Freshly Deposited Sediment (UNVEGETATED) | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Nursery | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | |
| Suburban Residential | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Soil Loss/Root Exposure | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Dairy | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | |
| Urban/Multifamily | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Wall/Riprap | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Orchard | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | |
| Landfill | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Inlets, Outlets | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Confined Animal Feeding | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | |
| Dumping | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Point Source/Pipe (EFFLUENT OR STORMWATER) | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Rural Residential | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | |
| Trash | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Impervious surface input (SHEETFLOW) | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Gravel Pit | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | |
| Other: | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Other: | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Irrigation | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | |
| Other: | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Other: | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Other: | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | |

| Industrial Development Stressors | | | | | Habitat/Vegetation Stressors | | | | | | | | | |
|----------------------------------|---|---|---|------|--|---|---|---|------|---|--|---|---|------|
| Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag |
| Oil Drilling | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Forest Clear Cut | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Herbicide Use | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | |
| Gas Wells | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Forest Selective Cut | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Mowing/Shrub Cutting | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | |
| Mine (surface) | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Tree Plantation | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Trails | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | |
| Mine (underground) | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Tree Canopy Herbivory (INSECT) | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Soil Compaction (ANIMAL OR HUMAN) | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | |
| Military | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Shrub Layer Browsed (WILD OR DOMESTIC) | <input checked="" type="radio"/> 0 <input type="radio"/> 1 <input checked="" type="radio"/> 2 | | | | Offroad vehicle damage | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | |
| Other: | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Highly Grazed Grasses (OVERALL <3" HIGH) | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Soil erosion (FROM WIND, WATER, OR OVERUSE) | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | |
| Other: | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Recently Burned Forest Canopy | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Other: | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | |
| Other: | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Recently Burned Grassland (BLACKBERRY) | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Other: | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | |

Flag codes: K = No measurement made, U = Suspect measurement, F1, F2, etc. = misc. flags assigned by each field crew.

Explain all flags in comment section on the back of this form

2428168304

FORM B-1: BUFFER SAMPLE PLOTS - TARGETED ALIEN SPECIES (Back)

Reviewed by (initials):

Site ID: PCAD H1 1199

DATE: 07/14/2011

Confirm a filled data bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble

| Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Purple Loosestrife | Knotted | Japanese Knotweed | Perennial Pepperweed | Giant Reed | Cheatgrass | Tamansk | Other: | Fill bubble if present - Plot | 1 | 2 | 3 | Flag |
|-------------------------------|---|---|---|------|--------------------|---------|-------------------|----------------------|------------|------------|---------|--------|-------------------------------|---|---|---|------|
| Eurasian Watermilloil | | | | | | | | | | | | | | | | | |
| Water hyacinth | | | | | | | | | | | | | | | | | |
| Yellow Floating Heart | | | | | | | | | | | | | | | | | |
| Giant Salvinia | | | | | | | | | | | | | | | | | |
| Garlic Mustard | | | | | | | | | | | | | | | | | |
| Poison Henlock | | | | | | | | | | | | | | | | | |
| Mile-A-Minute Weed | | | | | | | | | | | | | | | | | |
| Birdsfoot Trefoil | | | | | | | | | | | | | | | | | |
| Canada Thistle | | | | | | | | | | | | | | | | | |
| Leafy Spurge | | | | | | | | | | | | | | | | | |
| Other: | | | | | | | | | | | | | | | | | |
| Other: | | | | | | | | | | | | | | | | | |
| Other: | | | | | | | | | | | | | | | | | |
| Other: | | | | | | | | | | | | | | | | | |

PLOT COORDINATES

Provide GPS coordinates at the center of the Buffer Plot (#3) at the far end of each Buffer Transect and for the Buffer Plot at the AA CENTER. Indicate the location of the plot coordinates by filling in the appropriate bubble.

If Buffer Plot 3 can not be accessed, take the coordinates at the nearest practicable location ALONG THE TRANSECT. This is important because all Buffer Plots are centered on the Buffer Transects and the coordinates will indicate the location of the transect. Fill in the "nearest practicable location" bubble, fill in the flag box, and describe where the coordinates were taken and why in the comment section below. The coordinates of the nearest practicable location can be either placed as close to the center of Plot 3 as possible or at the center of the last accessible Buffer Plot.

Location of coordinates (choose one):

☐ AA CENTER
 ☐ N3
 ☐ S3
 ☐ E3
 ☒ W3
 ☐ Nearest practicable location (flag and comment below)

Latitude North 41.22351 Longitude West 081.69865

Use Decimal Degrees; NAD83

Flag

Comments

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (initial):

Site ID: PCAP HI 1149

DATE: 07/14/2011

Location:

☐ AA Center
 ☐ N
 ☒ S
 ☐ E
 ☐ W

Fill in bubble(s) if plot(s) could not be sampled and flag →

☐ Plot 1

 ☐ Plot 2

 ☐ Plot 3

Buffer Natural Cover Strata

Fill in bubbles for all that apply: Canopy Type: D = Deciduous; F = Evergreen; Leaf Type: B = Broadleaf; N = Needle leaf; Absent: No tree canopy.

Strata Section: Fill in appropriate cover class bubble for each strata type for each plot. 0 = Absent; 1 = Sparse (<10%); 2 = Moderate (10-40%); 3 = Heavy (40-75%); 4 = Very Heavy (>75%)

| Buffer Plot 1 | Canopy Type: <input type="radio"/> D <input type="radio"/> F | Absent: <input type="radio"/> | Leaf Type: <input type="radio"/> B <input type="radio"/> N | Flag | Buffer Plot 2 | Canopy Type: <input type="radio"/> D <input type="radio"/> F | Absent: <input type="radio"/> | Leaf Type: <input type="radio"/> B <input type="radio"/> N | Flag | Buffer Plot 3 | Canopy Type: <input type="radio"/> D <input type="radio"/> F | Absent: <input type="radio"/> | Leaf Type: <input type="radio"/> B <input type="radio"/> N | Flag |
|---------------------------------------|--|-------------------------------|--|------|---------------------------------------|---|-------------------------------|--|------|---------------------------------------|--|-------------------------------|--|------|
| Big Trees (>0.3m DBH) | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | | Big Trees (>0.3m DBH) | <input type="radio"/> 0 <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | | Big Trees (>0.3m DBH) | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | |
| Small Trees (<0.3m DBH) | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input checked="" type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | | Small Trees (<0.3m DBH) | <input type="radio"/> 0 <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | | Small Trees (<0.3m DBH) | <input checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | |
| Woody Shrubs, Saplings (0.5m-5m HIGH) | <input type="radio"/> 0 <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | | Woody Shrubs, Saplings (0.5m-5m HIGH) | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | | Woody Shrubs, Saplings (0.5m-5m HIGH) | <input checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | |
| Woody Shrubs, Saplings (<0.5m HIGH) | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | | Woody Shrubs, Saplings (<0.5m HIGH) | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input checked="" type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | | Woody Shrubs, Saplings (<0.5m HIGH) | <input checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | |
| Herbs, Forbs and Grasses | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | | Herbs, Forbs and Grasses | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input checked="" type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | | Herbs, Forbs and Grasses | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input checked="" type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | |
| Bare ground | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | | Bare ground | <input checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | | Bare ground | <input checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | |
| Litter, duff | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input checked="" type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | | Litter, duff | <input checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | | Litter, duff | <input checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | |
| Rock | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | | Rock | <input checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | | Rock | <input checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | |
| Water | <input checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | | Water | <input checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | | Water | <input checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | |
| Submerged Vegetation | <input checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | | Submerged Vegetation | <input checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | | Submerged Vegetation | <input checked="" type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/> | <input type="radio"/> | |

Stressor Presence/Absence - Confirm that a filled data bubble indicates presence and an unfilled bubble indicates absence by filling this bubble.

| Residential and Urban Stressors | | | | | Hydrology Stressors | | | | | Agricultural & Rural Stressors | | | | |
|---------------------------------|-----------------------|-----------------------|-----------------------|------|--|-----------------------|-----------------------|-----------------------|------|--|-----------------------|-----------------------|-----------------------|------|
| Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag |
| Road - gravel | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Ditches, Channelization | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Pasture/Hay | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Road - two lane | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Dike/Dam/Road/RR Bed (IMPEDE FLOW) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Range | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Road - four lane | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Water Level Control Structure | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Row Crops | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Parking Lot/Pavement | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Excavation, Dredging | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Fallow Field (RECENT-RESTING ROW CROP FIELD) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Golf Course | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Fill/Spoil Banks | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Fallow Field (OLD - GRASS, SHRUBS, TREES) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Lawn/Park | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Freshly Deposited Sediment (UNVEGETATED) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Nursery | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Suburban Residential | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Soil Loss/Root Exposure | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Dairy | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Urban/Multifamily | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Wall/Riprap | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Orchard | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Landfill | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Inlets, Outlets | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Confined Animal Feeding | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Dumping | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Point Source/Pipe (EFFLUENT OR STORMWATER) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Rural Residential | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Trash | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Impervious surface input (SHEETFLOW) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Gravel Pit | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Other: | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Other: | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Irrigation | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Other: | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Other: | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Other: | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |

Industrial Development Stressors

Habitat/Vegetation Stressors

| Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag |
|-------------------------------|-----------------------|-----------------------|-----------------------|------|--|-----------------------|-----------------------|-----------------------|------|--|-----------------------|-----------------------|----------------------------------|------|
| Oil Drilling | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Forest Clear Cut | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Herbicide Use | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Gas Wells | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Forest Selective Cut | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Mowing/Shrub Cutting | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | |
| Mine (surface) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Tree Plantation | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Trails | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Mine (underground) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Tree Canopy Herbivory (INSECT) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Soil Compaction (ANIMAL OR HUMAN) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Military | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Shrub Layer Browsed (WILD OR DOMESTIC) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Offroad vehicle damage | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Other: | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Highly Grazed Grasses (OVERALL <3" HIGH) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Soil erosion (FROM WIND, WATER OR OVERUSE) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Other: | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Recently Burned Forest Canopy | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Other: | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Other: | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Recently Burned Grassland (BLACKENED) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Other: | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |

Flag codes: K = No measurement made, U = Suspect measurement, F1, F2, etc. = misc. flags assigned by each field crew.

Explain all flags in comment section on the back of this form

2428168304

FORM B-1: BUFFER SAMPLE PLOTS - TARGETED ALIEN SPECIES (Back)

Reviewed by (initial):

Site ID: PCAP #11149

DATE: 07/14/2011

Confirm a filled data bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble

| Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag |
|-------------------------------|---|---|---|------|-------------------------------|---|---|---|------|-------------------------------|---|---|---|------|
| Eurasian Watermilloil | | | | | Purple Loosestrife | | | | | Johnson Grass | | | | |
| Water hyacinth | | | | | Knotweed | | | | | Kudzu | | | | |
| Yellow Floating Heart | | | | | Japanese Knotweed | | | | | Mulliflora Rose | | | | |
| Giant Salvinia | | | | | Perennial Pepperweed | | | | | Common Buckhorn | | | | |
| Garlic Mustard | | | | | Giant Reed | | | | | Himalayan Blackberry | | | | |
| Poison Hemlock | | | | | Cheatgrass | | | | | Tamansk | | | | |
| Mill-A-Minute Weed | | | | | Reed Canary Grass | | | | | Other: | | | | |
| Birdfoot Trefoil | | | | | Common Reed | | | | | Other: | | | | |
| Canada Thistle | | | | | Leafy Spurge | | | | | Other: | | | | |

PLOT COORDINATES

Provide GPS coordinates at the center of the Buffer Plot (#3) at the far end of each Buffer Transect and for the Buffer Plot at the AA CENTER. Indicate the location of the plot coordinates by filling in the appropriate bubble.

If Buffer Plot 3 can not be accessed, take the coordinates at the nearest practicable location ALONG THE TRANSECT. This is important because all Buffer Plots are centered on the Buffer Transects and the coordinates will indicate the location of the transect. Fill in the "nearest practicable location" bubble, fill in the flag box, and describe where the coordinates were taken and why in the comment section below. The coordinates of the nearest practicable location can be either placed as close to the center of Plot 3 as possible or at the center of the last accessible Buffer Plot.

Location of coordinates (choose one):

☐ AA CENTER
 ☐ N3
 ☒ S3
 ☐ E3
 ☐ W3
 ☐ Nearest practicable location (flag and comment below)

Flag

Latitude North 41.22243 Longitude West 081.69682

Use Decimal Degrees; NAD83

Flag

Comments

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (initial):

Site ID: PCAP H1 1149DATE: 07/14/2011

Location:

☐ AA Center
 ☐ N
 ☐ S
 ☒ E
 ☐ W

Fill in bubble(s) if plot(s) could not be sampled and flag →

☐ Plot 1

 ☐ Plot 2

 ☐ Plot 3

Buffer Natural Cover Strata

Fill in bubbles for all that apply: Canopy Type: D = Deciduous; E = Evergreen Leaf Type: B = Broadleaf; N = Needle Leaf; Absent: No tree canopy.

Strata Section: Fill in appropriate cover class bubble for each strata type for each plot. 0 = Absent; 1 = Sparse (<10%); 2 = Moderate (10-40%); 3 = Heavy (40-75%); 4 = Very Heavy (>75%)

| Buffer Plot 1 | Canopy Type: <input type="radio"/> D <input type="radio"/> E | Absent: <input type="radio"/> | Leaf Type: <input type="radio"/> B <input type="radio"/> N | Flag | Buffer Plot 2 | Canopy Type: <input type="radio"/> D <input type="radio"/> E | Absent: <input type="radio"/> | Leaf Type: <input type="radio"/> B <input type="radio"/> N | Flag | Buffer Plot 3 | Canopy Type: <input type="radio"/> D <input type="radio"/> E | Absent: <input type="radio"/> | Leaf Type: <input type="radio"/> B <input type="radio"/> N | Flag |
|---------------------------------------|--|-------------------------------|--|-----------------------|---------------------------------------|--|-------------------------------|--|-----------------------|---------------------------------------|--|-------------------------------|--|-----------------------|
| Big Trees (>0.3m DBH) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Big Trees (>0.3m DBH) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Big Trees (>0.3m DBH) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Small Trees (<0.3m DBH) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Small Trees (<0.3m DBH) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Small Trees (<0.3m DBH) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Woody Shrubs, Saplings (0.5m-5m HIGH) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Woody Shrubs, Saplings (0.5m-5m HIGH) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Woody Shrubs, Saplings (0.5m-5m HIGH) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Woody Shrubs, Saplings (<0.5m HIGH) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Woody Shrubs, Saplings (<0.5m HIGH) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Woody Shrubs, Saplings (<0.5m HIGH) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Herbs, Forbs and Grasses | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Herbs, Forbs and Grasses | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Herbs, Forbs and Grasses | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Bare ground | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Bare ground | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Bare ground | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Litter, duff | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Litter, duff | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Litter, duff | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Rock | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Rock | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Rock | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Water | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Water | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Water | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Submerged Vegetation | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Submerged Vegetation | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Submerged Vegetation | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

Stressor Presence/Absence - Confirm that a filled data bubble indicates presence and an unfilled bubble indicates absence by filling this bubble. ☒

| Residential and Urban Stressors | | | | | Hydrology Stressors | | | | | Agricultural & Rural Stressors | | | | |
|---------------------------------|-----------------------|-----------------------|-----------------------|------|--|-----------------------|-----------------------|-----------------------|------|--|-----------------------|----------------------------------|----------------------------------|------|
| Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag |
| Road - gravel | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Ditches, Channelization | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Pasture/Hay | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Road - two lane | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Dike/Dam/Road/RR Bed (IMPEDE FLOW) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Range | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Road - four lane | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Water Level Control Structure | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Row Crops | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Parking Lot/Pavement | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Excavation, Dredging | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Fallow Field (RECENT-RESTING ROW CROP FIELD) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Golf Course | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Fill/Spoil Banks | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Fallow Field (OLD - GRASS, SHRUBS, TREES) | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | |
| Lawn/Park | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Freshly Deposited Sediment (UNVEGETATED) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Nursery | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Suburban Residential | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Soil Loss/Root Exposure | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Dairy | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Urban/Multifamily | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Wall/Riprap | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Orchard | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Landfill | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Inlets, Outlets | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Confined Animal Feeding | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Dumping | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Point Source/Pipe (EFFLUENT OR SEWAGE) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Rural Residential | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Trash | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Impervious surface input (SHEETFLOW) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Gravel Pit | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Irrigation | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |

| Industrial Development Stressors | | | | | Habitat/Vegetation Stressors | | | | | | | | | |
|----------------------------------|-----------------------|-----------------------|-----------------------|------|--|-----------------------|-----------------------|-----------------------|------|---|-----------------------|----------------------------------|----------------------------------|------|
| Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag |
| Oil Drilling | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Forest Clear Cut | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Herbicide Use | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Gas Wells | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Forest Selective Cut | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Mowing/Shrub Cutting | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | |
| Mine (surface) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Tree Plantation | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Trails | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Mine (underground) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Tree Canopy Herbivory (INSECT) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Soil Compaction (ANIMAL OR HUMAN) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Military | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Shrub Layer Browsed (WILD OR DOMESTIC) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Offroad vehicle damage | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Highly Grazed Grasses (OVERALL <3" HIGH) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Soil erosion (FROM WIND, WATER, OR OVERUSE) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Recently Burned Forest Canopy | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Recently Burned Grassland (BLACKENED) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |

Flag codes: K = No measurement made, U = Suspect measurement, F1, F2, etc. = misc. flags assigned by each field crew.

Explain all flags in comment section on the back of this form

2428168304

FORM B-1: BUFFER SAMPLE PLOTS - TARGETED ALIEN SPECIES (Back)

Reviewed by (Initial):

Site ID: RCAP #1149

DATE: 07/14/2011

Confirm a filled data bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble

| Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Purple Loosestrife | Knockweed | Japanese Knotweed | Perennial Pepperweed | Giant Reed | Cheatgrass | Other: <u>Leontodon montanus</u> | Other: | Fill bubble if present - Plot | 1 | 2 | 3 | Flag |
|-------------------------------|---|---|---|------|--------------------|-----------|-------------------|----------------------|------------|------------|----------------------------------|--------|-------------------------------|---|---|---|------|
| Eurasian Watermilloil | | | | | | | | | | | | | | | | | |
| Water hyacinth | | | | | | | | | | | | | | | | | |
| Yellow Floating Heart | | | | | | | | | | | | | | | | | |
| Giant Salvinia | | | | | | | | | | | | | | | | | |
| Garlic Mustard | | | | | | | | | | | | | | | | | |
| Poison Hemlock | | | | | | | | | | | | | | | | | |
| Minute Weed | | | | | | | | | | | | | | | | | |
| Birdfoot Trefoil | | | | | | | | | | | | | | | | | |
| Canada Thistle | | | | | | | | | | | | | | | | | |

PLOT COORDINATES

Provide GPS coordinates at the center of the Buffer Plot (#3) at the far end of each Buffer Transect and for the Buffer Plot at the AA CENTER. Indicate the location of the plot coordinates by filling in the appropriate bubble.

If Buffer Plot 3 can not be accessed, take the coordinates at the nearest practicable location ALONG THE TRANSECT. This is important because all Buffer Plots are centered on the Buffer Transects and the coordinates will indicate the location of the transect. Fill in the "nearest practicable location" bubble, fill in the flag box, and describe where the coordinates were taken and why in the comment section below. The coordinates of the nearest practicable location can be either placed as close to the center of Plot 3 as possible or at the center of the last accessible Buffer Plot.

Location of coordinates (choose one):

☐ AA CENTER
 ☐ N3
 ☐ S3
 ☒ E3
 ☐ W3
 ☐ Nearest practicable location (flag and comment below)

Flag

Latitude North 41.22371 Longitude West 081.69580

Use Decimal Degrees; NAD83

Flag Comments

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (initial):

Site ID:

PCAP HI 1149

DATE:

07/14/2011

Location:

AA Center ☐ N ☐ S ☐ E ☐ W

Fill in bubble(s) if plot(s) could not be sampled and flag →

☐ Plot 1 ☐ Plot 2 ☐ Plot 3

Buffer Natural Cover Strata

Fill in bubbles for all that apply: Canopy Type: D = Deciduous; E = Evergreen; Leaf Type: B = Broadleaf; N = Needle Leaf; Absent: No tree canopy.

Strata Section: Fill in appropriate cover class bubble for each strata type for each plot. 0 = Absent; 1 = Sparse (<10%); 2 = Moderate (10-40%); 3 = Heavy (40-75%); 4 = Very Heavy (>75%)

| Buffer Plot 1 | Canopy Type: <input type="radio"/> D <input type="radio"/> E | Absent: <input type="radio"/> | Leaf Type: <input type="radio"/> B <input type="radio"/> N | Flag | Buffer Plot 2 | Canopy Type: <input type="radio"/> D <input type="radio"/> E | Absent: <input type="radio"/> | Leaf Type: <input type="radio"/> B <input type="radio"/> N | Flag | Buffer Plot 3 | Canopy Type: <input type="radio"/> D <input type="radio"/> E | Absent: <input type="radio"/> | Leaf Type: <input type="radio"/> B <input type="radio"/> N | Flag |
|---------------------------------------|--|-------------------------------|--|-----------------------|---------------------------------------|--|-------------------------------|--|-----------------------|---------------------------------------|--|-------------------------------|--|-----------------------|
| Big Trees (>0.3m DBH) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Big Trees (>0.3m DBH) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Big Trees (>0.3m DBH) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Small Trees (<0.3m DBH) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Small Trees (<0.3m DBH) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Small Trees (<0.3m DBH) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Woody Shrubs, Saplings (0.5m-5m HIGH) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Woody Shrubs, Saplings (0.5m-5m HIGH) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Woody Shrubs, Saplings (0.5m-5m HIGH) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Woody Shrubs, Saplings (<0.5m HIGH) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Woody Shrubs, Saplings (<0.5m HIGH) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Woody Shrubs, Saplings (<0.5m HIGH) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Herbs, Forbs and Grasses | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Herbs, Forbs and Grasses | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Herbs, Forbs and Grasses | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Bare ground | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Bare ground | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Bare ground | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Litter, duff | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Litter, duff | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Litter, duff | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Rock | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Rock | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Rock | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Water | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Water | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Water | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Submerged Vegetation | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Submerged Vegetation | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Submerged Vegetation | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

Stressor Presence/Absence - Confirm that a filled data bubble indicates presence and an unfilled bubble indicates absence by filling this bubble. ☐

Residential and Urban Stressors

Hydrology Stressors

Agricultural & Rural Stressors

| Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag |
|-------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|--|-----------------------|-----------------------|-----------------------|-----------------------|--|-----------------------|-----------------------|-----------------------|-----------------------|
| Road - gravel | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Ditches, Channelization | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Pasture/Hay | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Road - two lane | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Dike/Dam/Road/RR Bed (IMPERMEABLE FLOW) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Range | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Road - four lane | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Water Level Control Structure | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Row Crops | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Parking Lot/Pavement | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Excavation, Dredging | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Fallow Field (RECENT-RESTING ROW CROP FIELD) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Golf Course | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Fill/Spoil Banks | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Fallow Field (OLD - GRASS, SHRUBS, TREES) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Lawn/Park | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Freshly Deposited Sediment (UNVEGETATED) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Nursery | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Suburban Residential | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Soil Loss/Root Exposure | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Dairy | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Urban/Multifamily | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Wall/Riprap | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Orchard | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Landfill | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Inlets, Outlets | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Confined Animal Feeding | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Dumping | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Point Source/Pipe (EFFLUENT OR STORMWATER) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Rural Residential | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Trash | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Impervious surface input (SHEETFLOW) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Gravel Pit | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Irrigation | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

Industrial Development Stressors

Habitat/Vegetation Stressors

| Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag |
|-------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|--|----------------------------------|-----------------------|-----------------------|-----------------------|---|-----------------------|-----------------------|-----------------------|-----------------------|
| Oil Drilling | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Forest Clear Cut | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Herbicide Use | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Gas Wells | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Forest Selective Cut | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Mowing/Shrub Cutting | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Mine (surface) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Tree Plantation | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Trails | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Mine (underground) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Tree Canopy Herbivory (INSECT) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Soil Compaction (ANIMAL OR HUMAN) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Military | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Shrub Layer Browsed (WILD OR DOMESTIC) | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Offroad vehicle damage | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Highly Grazed Grasses (OVERALL <3" HIGH) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Soil erosion (FROM WIND, WATER, OR OVERUSE) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Recently Burned Forest Canopy | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Recently Burned Grassland (BLACKENED) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

Flag codes: K = No measurement made, U = Suspect measurement, F1, F2, etc. = misc. flags assigned by each field crew.

Explain all flags in comment section on the back of this form

2428168304

FORM B-1: BUFFER SAMPLE PLOTS - TARGETED ALIEN SPECIES (Back)

Reviewed by (Initial):

Site ID: PCAP H1 1149

DATE: 07/14/2011

Confirm a filled data bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble

| Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag |
|-------------------------------|---|---|---|------|-------------------------------|---|---|---|------|-------------------------------|---|---|---|------|
| Eurasian Watermilloil | | | | | Purple Loosestrife | | | | | Johnson Grass | | | | |
| Water hyacinth | | | | | Knockweed | | | | | Kudzu | | | | |
| Yellow Floating Heart | | | | | Japanese Knotweed | | | | | Mulligra Rose | | | | |
| Giant Salvinia | | | | | Perennial Pepperweed | | | | | Common Buckhorn | | | | |
| Garlic Mustard | | | | | Giant Reed | | | | | Himalayan Blackberry | | | | |
| Poison Hemlock | | | | | Cheatgrass | | | | | Tamansk | | | | |
| Mill-A-Minute Weed | | | | | Reed Canary Grass | | | | | Other: | | | | |
| Birdfoot Trefoil | | | | | Common Reed | | | | | Other: | | | | |
| Canada Thistle | | | | | Leafy Spurge | | | | | Other: | | | | |

PLOT COORDINATES

Provide GPS coordinates at the center of the Buffer Plot (#3) at the far end of each Buffer Transect and for the Buffer Plot at the AA CENTER. Indicate the location of the plot coordinates by filling in the appropriate bubble.

If Buffer Plot 3 can not be accessed, take the coordinates at the nearest practicable location ALONG THE TRANSECT. This is important because all Buffer Plots are centered on the Buffer Transects and the coordinates will indicate the location of the transect. Fill in the "nearest practicable location" bubble, fill in the flag box, and describe where the coordinates were taken and why in the comment section below. The coordinates of the nearest practicable location can be either placed as close to the center of Plot 3 as possible or at the center of the last accessible Buffer Plot.

Location of coordinates (choose one):

AA CENTER O N3 O E3 O W3 O Nearest practicable location (flag and comment below)

Flag

Latitude North 41.22362 Longitude West 81.69723

Use Decimal Degrees: NAD83

Flag Comments