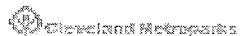


## CLEVELAND METROPARKS Plant Community Assessment Program: Quality Control Form



Project Label:

PCAP

Plot No: 1173

Date Sampled: 7/27/14

Lead: DS

Comment required if item answer is NO

|  |  |  |
|--|--|--|
| Parking/Access outside of Park Boundaries.             | <input checked="" type="radio"/> Y <input type="radio"/> N | If yes, write details in Comments section below            |
| Field journals completed                               | <input checked="" type="radio"/> Y <input type="radio"/> N |  |
| Site sketch made on 1:3000 map?                        | <input checked="" type="radio"/> Y <input type="radio"/> N |  |
| Check cover page                                       | X-axis Bearing of plot recorded                            | <input checked="" type="radio"/> Y <input type="radio"/> N |
|  | GPS coords. Recorded                                       | <input checked="" type="radio"/> Y <input type="radio"/> N |
|  | North direction recorded                                   | <input checked="" type="radio"/> Y <input type="radio"/> N |
|  | Photographs taken?   | <input checked="" type="radio"/> Y <input type="radio"/> N |
| Plot No., Date agreement on all pages?                 | <input checked="" type="radio"/> Y <input type="radio"/> N |  |
| Header data completed all pages?                       | <input checked="" type="radio"/> Y <input type="radio"/> N |  |
| Cover classes recorded in all Intensive modules        | <input checked="" type="radio"/> Y <input type="radio"/> N |  |
| Browse Level By Species                                | <input checked="" type="radio"/> Y <input type="radio"/> N |  |
| Woody stem quality control check                       | <input checked="" type="radio"/> Y <input type="radio"/> N |  |
| Invasive plant quality control check                   | <input checked="" type="radio"/> Y <input type="radio"/> N |  |
| Ash trees mapped                                       | <input checked="" type="radio"/> Y <input type="radio"/> N | n/a  |
| Cover by Strata? (confirm cover type)                  | <input checked="" type="radio"/> Y <input type="radio"/> N |  |
| Soil samples collected with matching plot #            | <input checked="" type="radio"/> Y <input type="radio"/> N |  |
| Vouchers labeled on datasheet with initials and number | <input checked="" type="radio"/> Y <input type="radio"/> N |  |
| Vouchers labeled on collection bag                     | <input checked="" type="radio"/> Y <input type="radio"/> N |  |
| Pink flags removed                                     | <input checked="" type="radio"/> Y <input type="radio"/> N |  |
| Data sheet QA before leaving site?                     | <input checked="" type="radio"/> Y <input type="radio"/> N |  |
| Common equipment returned to tub.                      | <input checked="" type="radio"/> Y <input type="radio"/> N |  |
| Data sheets scanned?                                   | 7/29/11 Enter date to left                                 |  |
| Final data sheets scanned?                             | Enter date to left   |  |
| Buffer Widths measured?                                | <input checked="" type="radio"/> Y <input type="radio"/> N |  |
| Web Soil Survey  | <input checked="" type="radio"/> Y <input type="radio"/> N |  |
| Voucher Location                                       | Refrigerator   | <input checked="" type="radio"/> Y <input type="radio"/> N |
| (# vouchers collected)                                 | Press (#)  | Enter number to left                                       |
|  | Drier  | <input checked="" type="radio"/> Y <input type="radio"/> N |
|  | Identified   | <input checked="" type="radio"/> Y <input type="radio"/> N |
|  | Mounted  | <input checked="" type="radio"/> Y <input type="radio"/> N |
|  | Thrown away  | <input checked="" type="radio"/> Y <input type="radio"/> N |

## GRTS point verification: Is plot sampleable?

|   |   |
|---|---|
| <input checked="" type="checkbox"/> Yes | Original GRTS point is sampleable   |
| <input type="checkbox"/> No             | Original GRTS point lands in a non-sampleable area (fill in category below)               |
|   | <input type="checkbox"/> Point falls in a water (i.e. river, lake)                        |
|   | <input type="checkbox"/> Managed mowed area (i.e. golf course, picnic area, right-of-way) |
|   | <input type="checkbox"/> Paved area (i.e. parkinglot, road)                               |
|   | <input type="checkbox"/> Unsafe to sample (i.e. steep slope)                              |
|   | <input type="checkbox"/> Other  |

## Additional Comments:

(

)

# CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

Page 1 of 2

## GENERAL INFORMATION

Project Label: PCAP

Project Name: 01 Br 2011

Plot Name: RED DAWN

Plot No.: 1173

- Level 4 (no nested corners sampled)
- Level 5 (nested corners sampled)

Date (mm/dd/yyyy): 07/27/2004

End date (if > 1 day): / /

Party STEVE

Role\*<sup>\*\*</sup> Plot leader

MACK ASS'T

J MURPHY ASS'T

K KERAN GUEST

\* Roles: Co-leader, Asst., Guide, Owner, Taxonomist, etc.

\*\* Roles: Co-leader, Asst., Guide, Owner, Taxonomist, etc.

PLOT NOT SAMPLED:  Other

Perm. water  Paved  Slope  Safety

## SAMPLING QUALITY\*

Effort Level: Very thorough

Accurate  
Hurried  
data

## TAXONOMIC ACCURACY

|         | high | modera. | low | not simpl |
|---------|------|---------|-----|-----------|
| vascul. | /    |         | n/a |           |
| bryo    |      |         | /   |           |
| lichen  |      |         | /   |           |

## TAXONOMIC STANDARD

Authority: G&C Pub Date: 1998

Minimum required fields in Bold and Underlined

|  |  |   |  |
|--|--|---|--|
| <b>LOCATION</b><br><u>State:</u> OH <u>County:</u> CUYAHOGA <u>Quadrangle:</u> KUTCHERS <u>Northfield Slt:</u> 0-3<br><u>Local Place Names:</u> CHIPPEWA CREEK BRIDGE  |  |   |  |
| <b>Data Confidentiality:</b><br>Check one: <input checked="" type="checkbox"/> Public data <input type="checkbox"/> Private Data<br><input type="checkbox"/> Fuzz 100m <input type="checkbox"/> Fuzz 250m <input type="checkbox"/> Fuzz 500m   |  |   |  |
| <b>Reason:</b><br>If data not public why?<br><input type="checkbox"/> If data not public why?<br><u>Source of coordinates:</u> <input type="checkbox"/> MAP <input checked="" type="checkbox"/> GPS<br>GPS location in plot x=0 to 5, y=1,0,+1:<br>$x = \odot$ $y = \odot$ (base of plot x=0, y=0)   |  |   |  |
| <b>Coordinate system:</b> <u>Coord. Units</u><br><input checked="" type="checkbox"/> Lat/long <input type="checkbox"/> UTM <input type="checkbox"/> StatePlane <input checked="" type="checkbox"/> deg <input type="checkbox"/> deg min<br><input type="checkbox"/> Other (specify) <input checked="" type="checkbox"/> m <input type="checkbox"/> ft <input type="checkbox"/>   |  | <b>Plot placement:</b><br><input type="checkbox"/> Representative <input checked="" type="checkbox"/> GRTS <input type="checkbox"/> Random <input type="checkbox"/> Stratified Random<br><input type="checkbox"/> Transect component <input type="checkbox"/> Systematic grid <input checked="" type="checkbox"/> Capture specific feature <input type="checkbox"/> Other |  |
| <b>Datum:</b> ■ NAD83/WGS84 <input type="checkbox"/> NAD27<br><b>Latitude:</b> 41.31765<br><b>Longitude:</b> -81.59253<br><b>Coord. Accuracy:</b> 1m <input type="checkbox"/> ft +/-12<br><b>GPS File Name:</b> 1173A<br><b>Plot size for cover data:</b> 0.08 (hectares)  |  |   |  |
| <p><input type="checkbox"/> Stems not sampled on this plot <input type="checkbox"/> Stems absent</p> <p><u>Stems present</u>: Plot size stems: 0.08 (ha)</p> <p><u>Depth:</u> (1-5): 4</p> <p><u>Intensive modules:</u> 2,3,8,9,12,17,18 (EDIT IF MODIFIED)</p> <p><u>Camera No.:</u> 3</p> <p><u>Photo Nos.:</u> C3-0568, 69, 70</p> <p><u>Notes:</u> Include Layout (any unusual shape details), Location (directions and landscape content), Rationale (why here), and Veg Characterization (description of community, dominants, strata, BROWSE). Additional notes in space on back.</p> <p><u>RATIONALE</u> - Agree w/ original layout, trail runs through plot, original GRTS pt @ (9,0)</p> <p><u>VEG</u> - Mixed floodplain with <i>Typhlops</i>, <i>Lindernia</i> and some <i>Platanus</i> (none rooted in plot) in <del>canopy</del> canopy. Subcanopy sparse (<i>Aesculus</i>), shrub layer more or less absent. Herb layer dominated by <i>Veronica</i>, <i>Polygonum</i> spp., and grasses (<i>Elymus</i>, <i>Phalaris</i>). Browse medium-low with <i>Astraceae</i> and <i>Rosa</i>, showing highest browse.</p> |  |   |  |

**OVER**

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

# CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

Project Label: PCAP

Project Name: 01B-2011

Plot No.: 1173

Page 2 of 2

| CLASSIFICATION   | STAND SIZE  | DISTURBANCES                 |            |           |           |
|--|---|------------------------------|------------|-----------|-----------|
|  |   | type*                        | severity** | yrs ago   | % of plot |
| (FIT = excellent, good, fair, poor; CONF = high, med, low) |   | Fit=                         | Conf=      |           |           |
| <b>Hydrogeomorphic class (WETLANDS ONLY):</b>              |   |                              |            |           |           |
| □ DEPRESSION   | <input type="checkbox"/>  | >1,000 x plot size           | Human      | <i>MH</i> | <i>L</i>  |
| □ IMPOUNDMENT □ Beaver □ Human                             | <input type="checkbox"/>  | > 100 x plot size            | Natural    | <i>MH</i> | <i>D</i>  |
| □ RIVERINE □ Headwater □ Mainstem □ Channel                | <input type="checkbox"/>  | 10-100 x plot size           | Fire       |           |           |
| □ SLOPE (ground water hydrology or on a physical slope)    | <input type="checkbox"/>  | 3-10 x plot size             | Cut        |           |           |
| □ FRINGING □ Reservoir □ Natural Lake                      | <input type="checkbox"/>  | 1-3 x plot size              | Animal     | <i>M</i>  | <i>C</i>  |
| □ COASTAL (specify, subclass)                              | <input type="checkbox"/>  | < plot size                  | Other      |           |           |
| □ BOG (strongly, moderately, weekly ombrotrophic)          | <input type="checkbox"/>  |                              |            |           |           |
|  |   |                              |            |           |           |
| <b>Ohio EPA VIB Plant Community Class (WETLANDS ONLY):</b> |   |                              |            |           |           |
| □ FOREST □ swamp forest □ bog forest □ forest seep         | <input type="checkbox"/>  |                              |            |           |           |
| □ EMERGENT □ marsh □ wet meadow □ open bog                 | <input type="checkbox"/>  |                              |            |           |           |
| □ SHRUB □ shrub swamp □ tall sh. bog □ tall sh. fen        | <input type="checkbox"/>  |                              |            |           |           |
|  |   |                              |            |           |           |
| <b>MODIFIED NATURERESERVE CLASS*:</b>                      |   |                              |            |           |           |
| CODE (on separate form):                                   | <i>L01</i>  | Fit= <i>G</i> Conf= <i>H</i> |            |           |           |
| COMMUNITY NAME:  | <i>MESIC FLOODPLAIN FOREST</i>  |                              |            |           |           |
| <b>HOMOGENEITY</b>   | Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.)   |                              |            |           |           |
| Homogeneous  | <i>Plot has flooded twice since spring of 2011. Flooded in past weeks bridge washed out just to along Chippewa Creek Dr.); deep sediment buried nails, crushed many flags and stakes. Most vegetation was matted down at sampling time.</i> |                              |            |           |           |
| □ Compositional trend across the plot                      |   |                              |            |           |           |
| □ Conspicuous inclusions                                   |   |                              |            |           |           |
| □ Irregular/pattern mosaic                                 |   |                              |            |           |           |

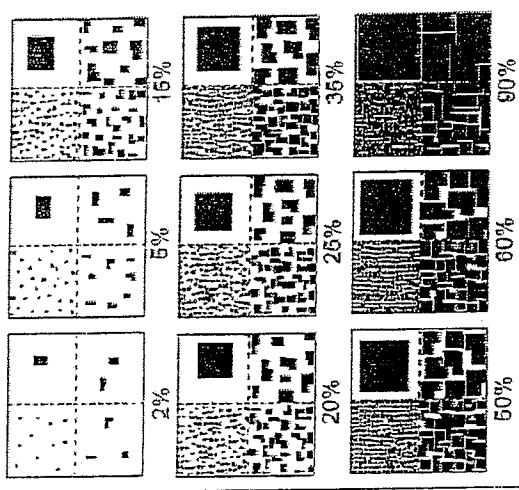
## CLAVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet

Page 1 of 4Project name: PCAPPlot no.: 1173Plot area (ha): 0.08Total modules: 4Visual est. % open water entire site: 0Plot configuration: 2 x 4Intensive modules: 4Visual est. % invasives entire site: 13%

| T | S | H | (F) | (A) | Br | Species                                | C | Voucher #   | Estimate for each intensive module: |        |     |        |     |        |     |        |     |        |     |        |
|---|---|---|-----|-----|----|--|---|-------------|-------------------------------------|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
|   |   |   |     |     |    |  |   |             | mod                                 | corner | mod | corner | mod | corner | mod | corner | mod | corner | mod | corner |
| 8 | 3 |   |     |     |    | <i>Teglah nigra</i>                    |   |             | 4                                   | 8      | 4   | 4      | 7   | 4      | 7   | 2      | 8   | 4      | 3   | 2      |
|   |   |   |     |     |    | <i>Liriodendron tulipifera</i>         |   |             | 4                                   | 6      | 4   | 6      | 2   | 4      | 6   | 2      | 8   | 4      | 3   | R      |
| 6 |   |   |     |     |    | <i>Polygonum virginianum</i>           |   |             | 4                                   | 4      | 4   | 3      | 2   | 4      | 2   | 2      | 3   | 3      | 2   |        |
|   |   |   |     |     |    | <i>Verbena stricta</i>                 |   |             | 4                                   | 3      | 2   | 4      | 5   | 4      | 3   | 3      | 2   | 7      | 3   |        |
| 7 |   |   |     |     |    | <i>Elymus virginicus</i> (wedge glume) | X | DS 187      | 3                                   | 3      |     |        |     |        |     |        |     |        |     |        |
|   |   |   |     |     |    | <i>Elymus villosus</i> (thin)          | X | DS 188      | 4                                   | 5      | 3   | 4      | 4   | 2      | 2   | 2      | 2   | 2      | 3   |        |
| 5 |   |   |     |     |    | <i>Toxicodendron radicans</i>          |   |             | 4                                   | 2      | 2   | 3      | 2   | 3      |     |        |     |        |     |        |
|   |   |   |     |     |    | <i>Geum canadense</i>                  |   |             | 3                                   | 2      |     |        |     |        |     |        |     |        |     |        |
| 1 | 2 |   |     |     |    | <i>Cirsium heterophyllum</i>           |   |             | 3                                   | 1      |     |        |     |        |     |        |     |        |     |        |
|   |   |   |     |     |    | <i>Alliaria petiolata</i>              |   |             | 3                                   | 2      |     |        |     |        |     |        |     |        |     |        |
| 2 |   |   |     |     |    | <i>Hesperis matronalis</i>             |   |             | 3                                   | 1      |     |        |     |        |     |        |     |        |     |        |
|   |   |   |     |     |    | <i>Carex amphibola</i>                 |   |             | 3                                   | 1      |     |        |     |        |     |        |     |        |     |        |
| 3 |   |   |     |     |    | <i>Leersia virginica</i>               |   |             | 4                                   | 2      | 2   | 3      | 2   | 3      |     |        |     |        |     |        |
| 2 |   |   |     |     |    | <i>Oxalis stricta</i>                  |   |             | 3                                   | 2      | 4   | 3      | 2   | 2      | 2   | 2      | 2   | 2      | 2   |        |
| 3 |   |   |     |     |    | <i>Polygonum cespitosum</i> (pink)     | X | DS 189      | 3                                   | 4      | 4   | 3      | 2   | 3      | 2   | 2      | 4   | 4      | 2   |        |
| 1 |   |   |     |     |    | <i>Melilotus sp.</i>                   |   |             | 3                                   | 1      |     |        |     |        |     |        |     |        |     |        |
| 2 |   |   |     |     |    | <i>Viola sororia</i>                   |   |             | 4                                   | 2      |     | 1      | 1   |        |     |        |     |        |     |        |
|   |   |   |     |     |    | <i>Pilea pumila</i>                    |   |             | 3                                   | 2      | 4   | 3      | 2   | 4      | 3   | 1      |     |        |     |        |
| 1 |   |   |     |     |    | <i>Amphicarpaea bracteata</i>          |   |             | 3                                   | 2      | 2   | 3      | 2   | 4      | 3   | 2      | 3   | 2      |     |        |
| 2 |   |   |     |     |    | <i>Lonicera macrocarpa</i>             |   |             | 2                                   | 2      | 2   | 1      |     |        |     |        |     |        |     |        |
| 1 |   |   |     |     |    | <i>Unknown dicot 2 (secrete lf)</i>    | X | DS 0571, 73 | 2                                   | 1      |     |        |     |        |     |        |     |        |     |        |
| 4 | 2 | 1 |     |     |    | <i>Vitis riparia</i>                   |   |             | 2                                   | 1      |     |        |     |        |     |        |     |        |     |        |
| 2 |   | 7 |     |     |    | <i>Aster 1 (water-flower)</i>          |   |             | 2                                   | 2      |     |        |     |        |     |        |     |        |     |        |
| 3 |   |   |     |     |    | <i>Regopodium pedasaria</i>            |   |             | 2                                   | 2      |     |        |     |        |     |        |     |        |     |        |

#### EXAMPLES OF PERCENT OF AREA COVERED

The following graphic can be used for various data elements to convey "Amount" or "Quantity". AND: Within any given look, each quadrant contains the same (that area covered) just different sized subjects.



#### 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.

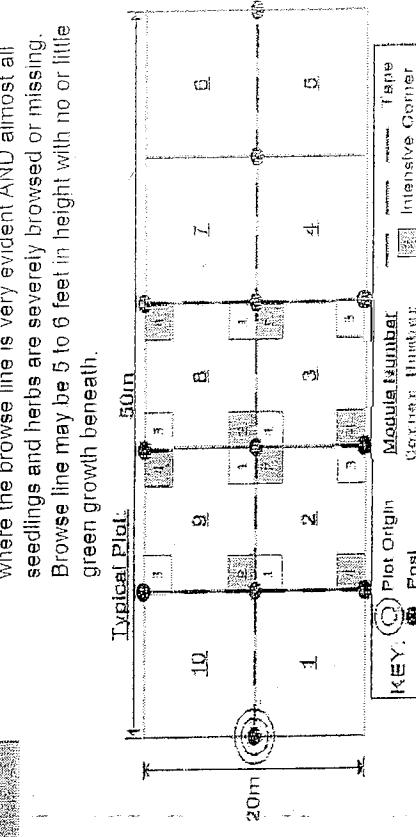
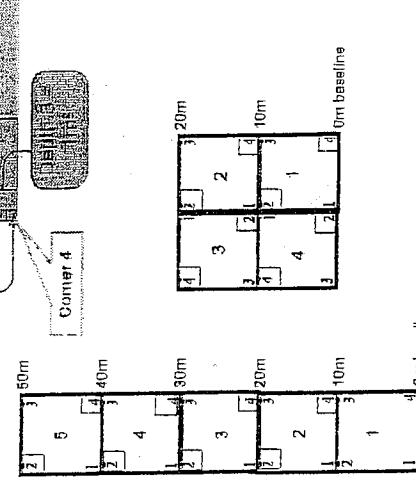
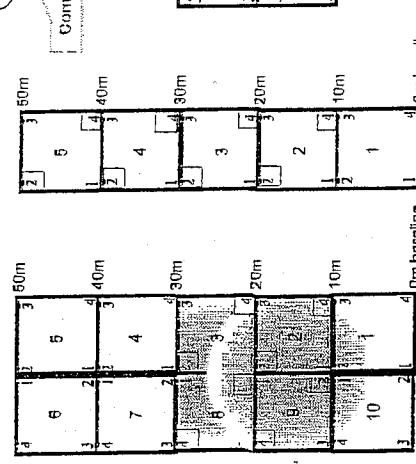
**MEDIUM LOW** values include evidence of browse at about 10 percent of the stems with no significant impact to plant reproduction evident. In this rating, plants are browsed but preferential species are observed to be reproducing in numbers that appear normal or near-normal in comparison to low browse 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 m<sup>2</sup> 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 m<sup>2</sup> nested quadrat and intensive module AND a browse line is evident.

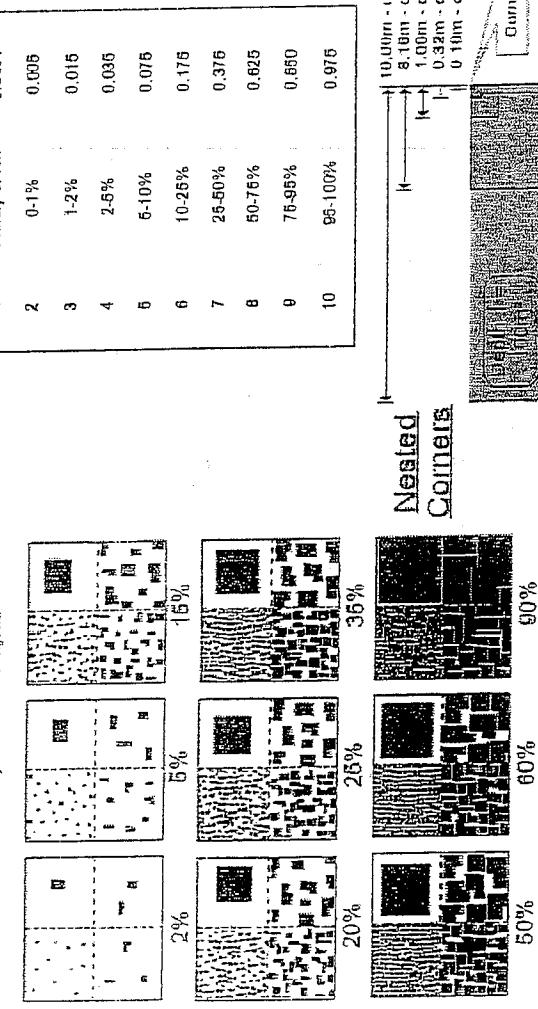
**VERY HIGH** values include extensive browse conditions, where the browse line is very evident AND almost all seedlings and herbs are severely browsed or missing. Browse line may be 5 to 6 feet in height with no or little green growth beneath.





#### EXAMPLES OF PERCENT OF AREA COVERED

The following graphics can be used for various data elements to convey "Amount of 'Odds'". **NOTE:** Within any given box, each quadrant contains the same total area covered just different sized squares.



#### 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.

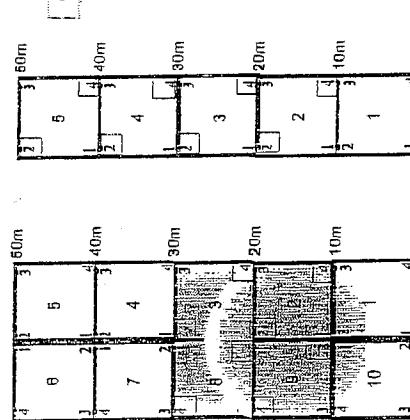
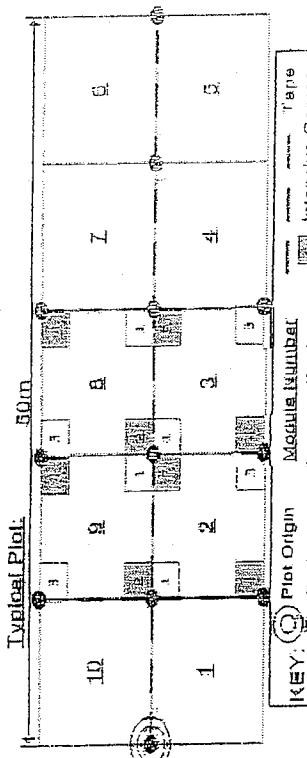
**MEDIUM LOW** values include evidence of browse at about 10 percent of the stems with no significant impact to plant reproduction evident. In this rating, plants are browsed but preferential species are observed to be reproducing in numbers that appear normal or near-normal in comparison to low browse 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 m<sup>2</sup> 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 m<sup>2</sup> nested quadrat and intensive module AND a browse line is evident.

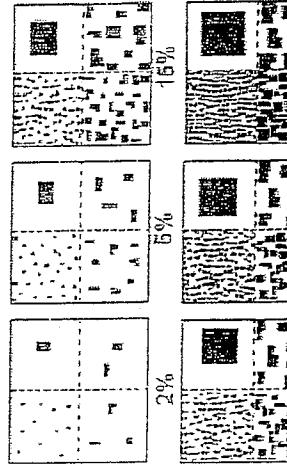
**VERY HIGH** values include extensive browse conditions, where the browse line is very evident AND almost all seedlings and herbs are severely browsed or missing. Browse line may be 5 to 6 feet in height with no or little green growth beneath.





#### EXAMPLES OF PERCENT OF AREA COVERED

The following graphic can be used for various data elements to convey "Amount of 'Obligate' BROWSE Within any given box, each quadrant contains the same total area covered, just different sized squares.



#### 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 m<sup>2</sup> 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.

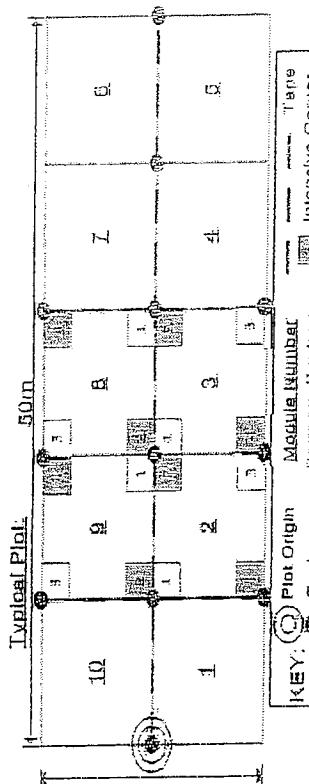
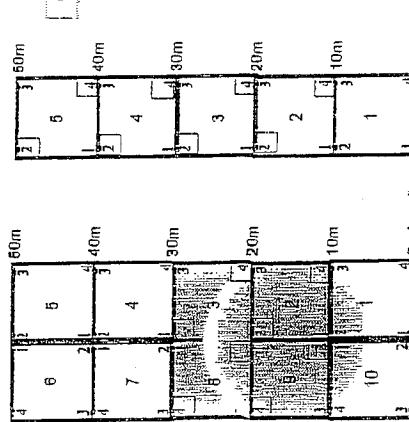
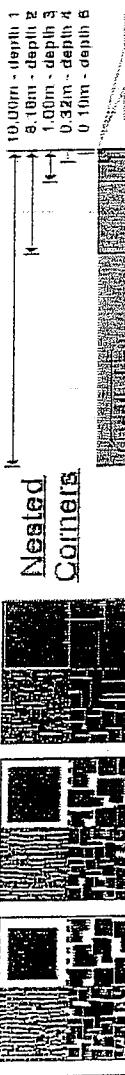
**HIGH:** greater than 25 percent of the stems of plants in the 1 m<sup>2</sup> nested quadrat and intensive module AND a browse line is evident.

**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.

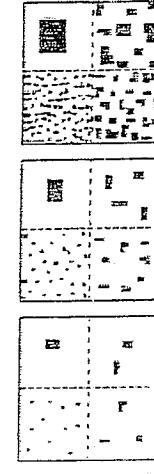
| cover class | % cover         | midpoint |
|-------------|-----------------|----------|
| 1           | solitary or few | 0.0001   |
| 2           | 0-1%            | 0.0006   |
| 3           | 1-2%            | 0.015    |
| 4           | 2-5%            | 0.036    |
| 5           | 6-10%           | 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    |



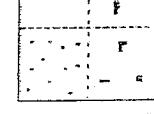
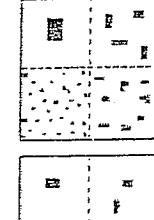
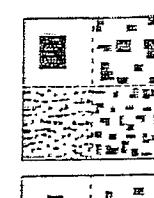


#### EXAMPLES OF PERCENT OF AREA COVERED

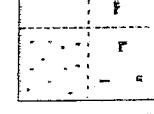
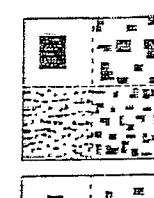
The following graphic can be used for various data elements to convey "Annual" or "Perennial". AND IF: Within any given box, each quadrant contains the same (unit after covered), just different sized objects.



20% 50% 35%



50% 60% 25%



50% 60% 25%

#### 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 m<sup>2</sup> nested quadrat and intensive module. A browse line is usually not evident or obvious for all classes and species of 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.

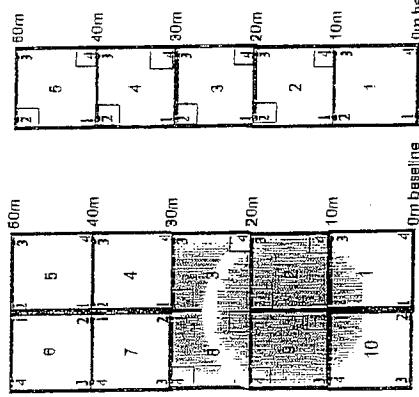
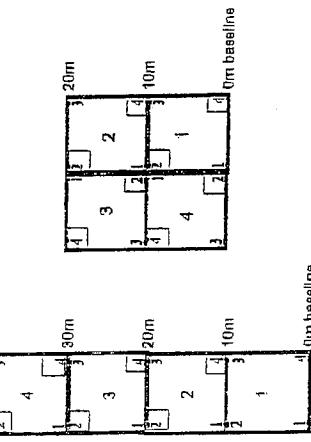
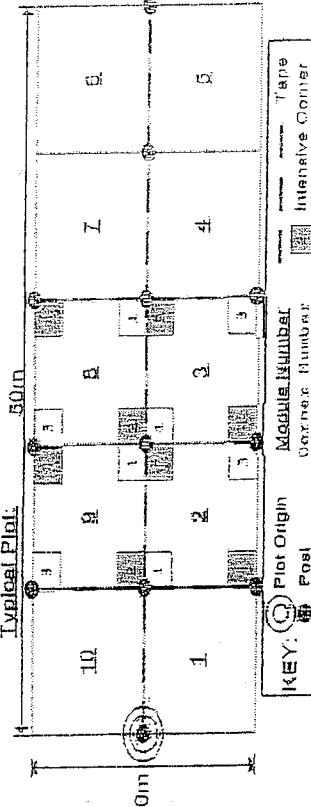
**HIGH:** greater than 25 percent of the stems of plants in the 1 m<sup>2</sup> nested quadrat and intensive module AND a browse line is evident.

**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.



## CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP

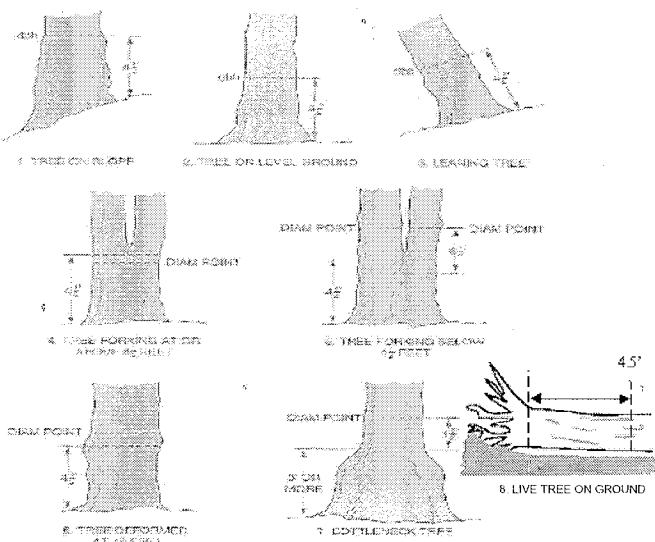
Project Name: Olbr 2011

Page: 1 of 2

Explain subsample (additional room on back):

| mod # | species                                  | c | voucher# | # stems         | % sub<br>0.5-1m<br>browsed | #      | size class (cm) woody stems > 1m | 4     | 5      | 6      | 7      | 8      | 9      | 10       | 11                     |
|-------|--|---|----------|-----------------|----------------------------|--------|----------------------------------|-------|--------|--------|--------|--------|--------|----------|------------------------|
|       |  |   |          | shrub<br>clumps | 0-<1                       | 1-<2.5 | 2.5-<5                           | 5-<10 | 10-<15 | 15-<20 | 20-<25 | 25-<30 | 30-<35 | 35 - <40 | >40 (record each tree) |
| -1    | <i>Juglans nigra</i>                     |   |          |                 |                            |        |                                  |       |        |        |        |        |        |          |                        |
| -1    | <i>Liquidambar styraciflua</i>           |   |          |                 |                            |        |                                  |       |        |        |        |        |        |          |                        |
| -1    | <i>Aesculus glabra</i>                   |   |          |                 |                            |        |                                  |       |        |        |        |        |        |          |                        |
| -2    | <i>Juglans Nigra</i>                     |   |          |                 |                            |        |                                  |       |        |        |        |        |        |          |                        |
| -2    | <i>Liriodendron Tulipifera</i>           |   |          |                 |                            |        |                                  |       |        |        |        |        |        |          |                        |
| -2    | <i>Fraxinus Americana</i>                |   |          |                 |                            |        |                                  |       |        |        |        |        |        |          |                        |
| -3    | <i>Juglans Nigra</i>                     |   |          |                 |                            |        |                                  |       |        |        |        |        |        |          |                        |
| -4    | <i>Juglans Nigra</i>                     |   |          |                 |                            |        |                                  |       |        |        |        |        |        |          |                        |
| -4    | <i>Aesculus Glabra</i><br>(Dawn Redwood) |   |          |                 |                            |        |                                  |       |        |        |        |        |        |          |                        |
| -4    | <i>Metasequoia Glyptostroboides</i>      |   |          |                 |                            |        |                                  |       |        |        |        |        |        |          |                        |
| -5    | <i>Juglans Nigra</i>                     |   |          |                 |                            |        |                                  |       |        |        |        |        |        |          |                        |
| -5    | <i>Quercus Rubra</i>                     |   |          |                 |                            |        |                                  |       |        |        |        |        |        |          |                        |
| -5    | <i>Parthenocissus Quin.</i>              |   |          |                 |                            |        |                                  |       |        |        |        |        |        |          |                        |
| -5    | <i>Aesculus Glabra</i>                   |   |          |                 |                            |        |                                  |       |        |        |        |        |        |          |                        |
| -5    | <i>Vitis Riparia</i>                     |   |          |                 |                            |        |                                  |       |        |        |        |        |        |          |                        |
| -5    | <i>Ulmus Americana</i>                   |   |          |                 |                            |        |                                  |       |        |        |        |        |        |          |                        |
| -6    | <i>Juglans Nigra</i>                     |   |          |                 |                            |        |                                  |       |        |        |        |        |        |          |                        |
| -6    | <i>Parthenocissus Quin.</i>              |   |          |                 |                            |        |                                  |       |        |        |        |        |        |          |                        |
| -7    | <i>Juglans Nigra</i>                     |   |          |                 |                            |        |                                  |       |        |        |        |        |        |          |                        |
| -8    | <i>Acer Saccharum</i>                    |   |          |                 |                            |        |                                  |       |        |        |        |        |        |          |                        |
| -7    | <i>Parthenocissus Quin.</i>              |   |          |                 |                            |        |                                  |       |        |        |        |        |        |          |                        |
| -8    | <i>Ulmus Americana</i>                   |   |          |                 |                            |        |                                  |       |        |        |        |        |        |          |                        |
| -8    | <i>Juglans Nigra</i>                     |   |          |                 |                            |        |                                  |       |        |        |        |        |        |          |                        |
| -8    | <i>Aesculus Glabra</i>                   |   |          |                 |                            |        |                                  |       |        |        |        |        |        |          |                        |

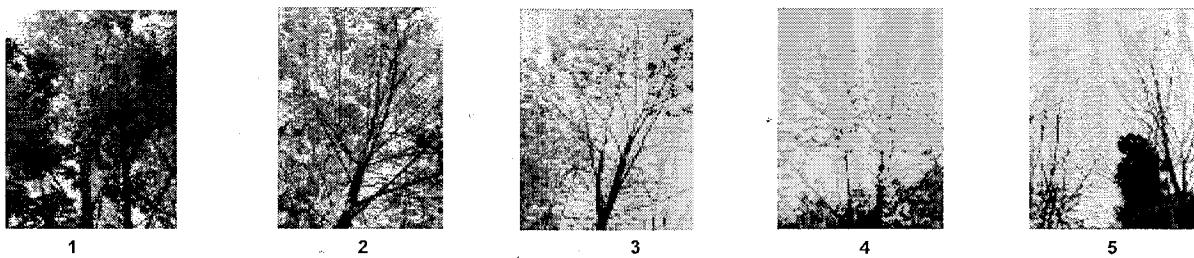
#### **DBH Measurement Rules**



#### **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



#### **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.



A



B



C



D



E

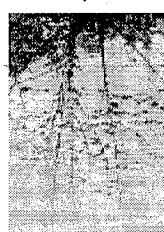
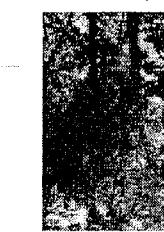
#### **ASH CANOPY BREAKUP CONDITION (for dead trees):**

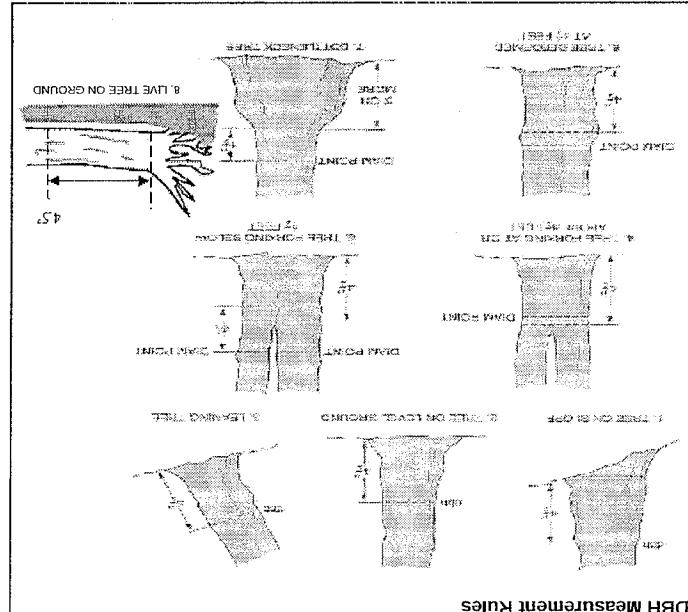
(if an ash receives a score of 5 (dead) under canopy condition it must also receive a breakup condition rank as described below)

- 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.



|  |   |  |  |  |
|--|---|--|--|--|
| <p align="center"><b>ASH CANOPY BREAKUP CONDITION (for dead trees):</b></p> <p align="center">(if an ash receives a score of 5 (dead) under canopy condition it must also receive a breakup condition rank as described below)</p> <p align="center">A      B      C      D      E</p>  |   |  |  |  |
| E:   | Central stem still standing.                            |  |  |  |
| D:   | Stem still standing and tertiary main branches present. |  |  |  |
| C:   | Less than 50% of main branches have fine twigs.         |  |  |  |
| B:   | Over 50% of main branches have fine twigs.              |  |  |  |
| A:   | All main branches contain fine twigs (newly dead).      |  |  |  |

|  |  |  |  |  |
|--|--|--|--|--|
| <p align="center"><b>ASH CANOPY CONDITION</b></p> <p align="center">(lowest branch) on the trunk</p>      |  |  |  |  |
| 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                           |  |  |  |
| 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.   |  |  |  |
| 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. |  |  |  |
| 2. Thinning canopy:  | There aren't as many leaves as there ought to be, but all top branches exposed to sunlight have leaves.  |  |  |  |
| 1. Healthy, full canopy:   | A healthy ash canopy is normally thinner than many other trees such as maple.  |  |  |  |

|   |  |
|---|--|
| <p align="center"><b>DBH Measurement Rules</b></p>    |  |
| <p align="center"><b>Woody Stem Deer Browse</b></p> <p>Record the number of stems/plants between 0.5-1.0 meters tall that exhibit evidence of this year's deer browse.</p> <p>Record using the tally system from 1 to 10</p> <p></p> |  |

CLEVELAND METROPARKS Emerald Ash Borer - *Fraxinus* Sheet

Project Label: PCAP

Project Name: OI0r201

INTENSIVE MODULES ONLY TREES ≥ 10CM ONLY  
Plot No.: 1173 Date: 7/27/11© 2011 CLEVELAND METROPARKS  
Page: 1 of 2

| Module | Tree ID | Species | Dead c | Voucher# | DBH (cm) | HT @ DBH | Ash condition | ASH Only   |              |                            |
|--------|---------|---------|--------|----------|----------|----------|---------------|------------|--------------|----------------------------|
|        |         |         |        |          |          |          |               | Dead holes | # Exit holes | Epicormic Woodpecker holes |
| 1      | NW Ash  |         |        |          |          |          |               |            |              |                            |
| 2      |         |         |        |          |          |          |               |            |              |                            |
| 3      |         |         |        |          |          |          |               |            |              |                            |
| 4      |         |         |        |          |          |          |               |            |              |                            |
| 5      |         |         |        |          |          |          |               |            |              |                            |
| 6      |         |         |        |          |          |          |               |            |              |                            |
| 7      |         |         |        |          |          |          |               |            |              |                            |
| 8      |         |         |        |          |          |          |               |            |              |                            |
| 9      |         |         |        |          |          |          |               |            |              |                            |
| 10     |         |         |        |          |          |          |               |            |              |                            |
| 11     |         |         |        |          |          |          |               |            |              |                            |
| 12     |         |         |        |          |          |          |               |            |              |                            |
| 13     |         |         |        |          |          |          |               |            |              |                            |
| 14     |         |         |        |          |          |          |               |            |              |                            |
| 15     |         |         |        |          |          |          |               |            |              |                            |
| 16     |         |         |        |          |          |          |               |            |              |                            |
| 17     |         |         |        |          |          |          |               |            |              |                            |
| 18     |         |         |        |          |          |          |               |            |              |                            |
| 19     |         |         |        |          |          |          |               |            |              |                            |
| 20     |         |         |        |          |          |          |               |            |              |                            |
| 21     |         |         |        |          |          |          |               |            |              |                            |
| 22     |         |         |        |          |          |          |               |            |              |                            |
| 23     |         |         |        |          |          |          |               |            |              |                            |
| 24     |         |         |        |          |          |          |               |            |              |                            |
| 25     |         |         |        |          |          |          |               |            |              |                            |

Baseline

\*\*\* Change intensive module numbers when necessary

N

9

8

2

3

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 ≥ 1.5in

Woodpecker and epicormic marked present (1) or absent (0)



**CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey**

| Presence     |    | GPS | Comments |    |  |
|--------------|----|-----|----------|----|--|
| # of Plants  | NE | SE  | SW       | NW |  |
| 1: 1-10      |    |     |          |    |  |
| 2: 11-50.    |    |     |          |    |  |
| 3: 51-100    |    |     |          |    |  |
| 4: 101-1,000 |    |     |          |    |  |
| 5: >1,000    |    |     |          |    |  |

| Tier 2: Assess as Needed |    | # of Plants | Comments |    |  |
|--------------------------|----|-------------|----------|----|--|
| # of Plants              | NE | SE          | SW       | NW |  |
| 1: 1-10                  |    |             |          |    |  |
| 2: 11-50.                |    |             |          |    |  |
| 3: 51-100                |    |             |          |    |  |
| 4: 101-1,000             |    |             |          |    |  |
| 5: >1,000                |    |             |          |    |  |

| Tier 3: Presence is of Interest |    | # of Plants | Comments |    |  |
|---------------------------------|----|-------------|----------|----|--|
| # of Plants                     | NE | SE          | SW       | NW |  |
| 1: 1-10                         |    |             |          |    |  |
| 2: 11-50.                       |    |             |          |    |  |
| 3: 51-100                       |    |             |          |    |  |
| 4: 101-1,000                    |    |             |          |    |  |
| 5: >1,000                       |    |             |          |    |  |

| Tier 4: Widely spread and abundant |    | Presence | Comments |    |  |
|------------------------------------|----|----------|----------|----|--|
| # of Plants                        | NE | SE       | SW       | NW |  |
| 1: 1-10                            |    |          |          |    |  |
| 2: 11-50.                          |    |          |          |    |  |
| 3: 51-100                          |    |          |          |    |  |
| 4: 101-1,000                       |    |          |          |    |  |
| 5: >1,000                          |    |          |          |    |  |

| Tier 5: Ground-cover species record "stem" # but in comment field describe # of colonies and patch size (S,M,L) |    | Presence | Comments |    |  |
|---|----|----------|----------|----|--|
| # of Plants   | NE | SE       | SW       | NW |  |
| 1: 1-10   |    |          |          |    |  |
| 2: 11-50.   |    |          |          |    |  |
| 3: 51-100   |    |          |          |    |  |
| 4: 101-1,000  |    |          |          |    |  |
| 5: >1,000   |    |          |          |    |  |

**CLEVELAND METROPARKS Plant Community Assessment Program - Soils, Crown Cover, Standing Biomass Data Sheet**

Plot No.: 1173

Page: 1 of 1



**SOIL PIT DESCRIPTION:** Excavate 20 cm plug with shovel. Describe using Munsell chart, visual exam, texture, and odor.

**Soil pit module #** \_\_\_\_\_ (one per entire plot)

|       |                  |  |
|-------|------------------|--|
| 5 cm  | matrix color     | YR 4/4   |
|       | mottle color     | None <input checked="" type="checkbox"/>                             |
|       | %mottle          | 0% <input type="checkbox"/>  |
|       | oxid roots       | Y <input type="checkbox"/> N <input checked="" type="checkbox"/>     |
|       | texture*         | 3 <input type="checkbox"/>   |
|       | redox features** | Y <input type="checkbox"/> N <input checked="" type="checkbox"/>     |
|       | hydr. cond.***   | I S <input checked="" type="checkbox"/> M D <input type="checkbox"/> |
| 20 cm | matrix color     | 10 YR 3/4  |
|       | mottle color     | None <input type="checkbox"/>  |
|       | %anottle         | 0% <input checked="" type="checkbox"/>                               |
|       | oxid roots       | Y <input type="checkbox"/> N <input checked="" type="checkbox"/>     |
|       | texture*         | 3 <input type="checkbox"/>   |
|       | redox features** | Y <input type="checkbox"/> N <input checked="" type="checkbox"/>     |
|       | hydr. cond.***   | I S <input checked="" type="checkbox"/> M D <input type="checkbox"/> |

**SOIL SAMPLES** Standard procedure: collect a soil sample of the top 10 cm of soil from center of each intensive module and composite the sample

| Soil Collection Module | Horizon (A, B, C) |
|------------------------|-------------------|
| 1/2/8/8 Unposted       | A                 |

**Soil Description/notes:**

**STANDING BIOMASS** (required for emergent wetlands): collected in 0.1m clip plots (32x32 cm) from corners 1 and 3 in each intensive module. Required for VIBI-E score calculation. C? = check when collected

| Module # | C? | Corner | Corner |
|----------|----|--------|--------|
|          |    |        |        |
|          |    |        |        |
|          |    |        |        |
|          |    |        |        |

**SOIL DEPTH MEASUREMENT INSTRUCTIONS:** Measure to the nearest 0.1 cm in center of intensive modules. If >30.5 cm, record as >30

\* Depth to restrictive layer

| mod# | 1 litter + organic depth (cm) | 2 litter depth (cm) | 3 restrict. depth (cm) | water depth (cm) | sat soil depth (cm) |
|------|-------------------------------|---------------------|------------------------|------------------|---------------------|
| 1    | 0                             | 0                   | >100                   | 0                | >30                 |
| 2    | 0                             | 0                   | >100                   | 0                | >30                 |
| 7    | 0                             | 0                   | 70                     | 0                | >30                 |
| 8    | 0                             | 0                   | 42                     | 0                | >30                 |

Length of soil probe = 125 cm

\* Use Web Soil Survey for #3 Restrictive layer dept.

Length of soil probe = 125 cm

\* Use Web Soil Survey for #3 Restrictive layer dept.

**Earth Worms found in soil sample**

Circle one:  
I=indurated S=saturated M=moist D=dry

**Notes:** include evidence of earthworms (worms, castings, middens)

\*\* e.g. hydrogen sulfide odor, gleying, etc.

\*\*\* Circle one:

I=indurated S=saturated M=moist D=dry

**SWELL DRAINED**

D Excessively drained

D Somewhat excessively drained

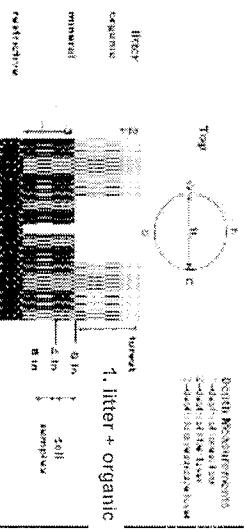
D Moderately well dr.

D Somewhat poorly dr.

D Poorly dr.

D Very poorly dr.

D Impermeable surface



**UNKNOWN:** The hydrologic regime cannot be determined from the available information.

**PERMANENTLY FLOODED:** Water covers the land surface at all times of the year in all years. Equivalent to Cowardin's "permanently flooded".

**SEMPERMANENTLY FLOODED (exposed <1/year):** Surface water persists throughout the growing season in most years. Land surface is normally saturated when water drops below soil surface. Includes Cowardin's Intermittently Exposed and Semipermanently Flooded models.

**INTERMITTENTLY FLOODED:** Substrate is usually exposed, but surface water can be present for variable periods without detectable inundation. This model can be applied to both wetland and non-wetland situations. Equivalent to Cowardin's Intermittently Flooded model.

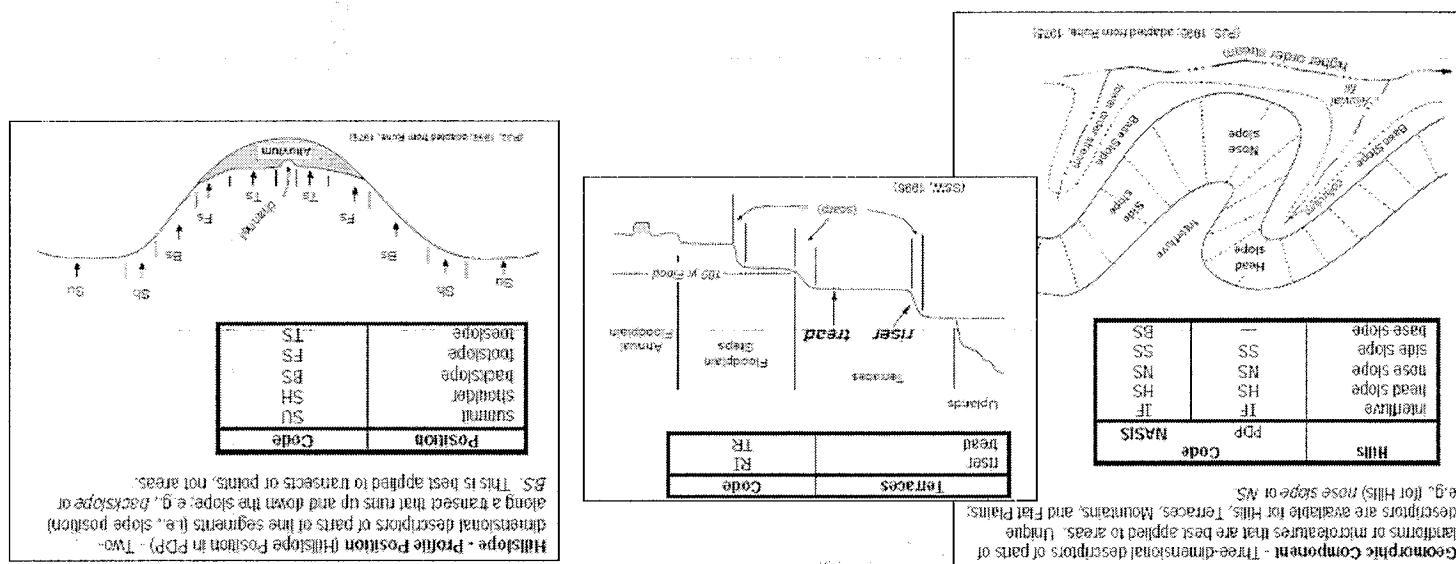
**TEMPORARILY FLOODED:** Surface is usually exposed, but surface water can be present for brief periods during growing season, but not in most years. Often characterized by flooding levees and lower terraces. Equivalent to Cowardin's Temporarily Flooded model.

**OCCASIONALLY FLOODED:** Surface water can be present for brief periods during growing season, but not in most years. Often characterized by flooding upper terraces. Equivalent to Cowardin's Occasionaly Flooded model.

**INTERMITTENTLY/SEMPERMANENTLY SATURATED:** Dry at least once per year. Surface water is seldom present, but substrate is saturated to surface for extended periods during the growing season. Equivalent to Cowardin's Saturated model.

**UPLAND:** Not a wetland. Very rarely flooded.

**HYDROLOGIC REGIME** Modified from Grossman et al 1998. (Frequency and duration of flooding.)



| Class                             | Code   | Cover, NASIS   | Criteria - % of Surface Area Covered | Few                                  | Many        |
|-----------------------------------|--|--|--------------------------------------|--------------------------------------|-------------|
| SOIL TEXTURE                      | Record the code for the soil texture of the 5 cm and 20 cm layers. To estimate texture, collect a soil sample from the appropriate layer and moisten it with water to the consistency of modeling clay/wet newspaper, the sample should be wet enough that all of the particles are saturated but excess water does not freely flow from the sample when squeezed. Attempt to roll the sample into a ball. If the soil will not stay in a ball and has a grainy texture, the texture is either sandy or coarse sandy. If the soil does form a ball, squeeze the sample between your fingers and attempt to form a ball, if the soil will not stay in a ball and has a grainy texture, the texture is either sandy or coarse sandy. If the soil does not form a ball but not a ribbon should be coded as loamy. Loamy forms a ball but not a ribbon should be coded as loamy. | Organic<br>0=Organic<br>1=Lamay<br>2=Clayey<br>3=Sandy<br>4=Carese Sand<br>9=Not measured - make plot note | ≤ 20%<br>20 > 20                     | C<br>I<br>II<br>III<br>IV<br>V<br>VI | Few<br>Many |
| PERCENT MOTTLES (USE CLASS CODES) |  |  |                                      |                                      |             |

| EARTH SURFACE & GROUND COVER  |   |  |
|---|---|--|
| Underlying Earth Surface*   | Ground Cover                              |  |
| (Sun = 100%)<br>Hastate   | percent<br>(Each ≤ 0%)                    |  |
| Mineral Soil  | 18  |  |
| Gravel-Cobble*  | 8   |  |
| Boulder**   | 3   |  |
| Bedrock   | 0   |  |
| * Gravel-Cobble = 1/16 to 1 in<br>** Boulder = > 10 in<br>...>5 cm in diameter<br>*** <5 cm in diameter | Water<br>Bare Soil<br>Road/Trail<br>Other |  |
| ** submerged, most plant mass below surface   |   |  |
| SEE BACK OF PAGE FOR "TYPICAL"<br>STRATA DESCRIPTIONS. STRATA<br>CAN VARY BY COVER TYPE.                |   |  |

Remember: in a standard 2x5 plot each module = 10% cover

**MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only**

Ranks for microhabitat features. Select one or select two and average the score. **NOTE:** If mod falls on a slope automatically gets ranked based on steepness (1-3)  
 Slope 1 = slight elevation/grade across module (hill)  
 Slope 2 = falls on slope ~20°  
 Slope 3 = maximum steepness that can be safely sampled ~45°

0 feature is absent or functionally absent (Golf Course Flat)

3 feature is present in very small amounts or more common, of low quality

7 feature is present in moderate amounts, but not of highest quality, or in small amounts of highest quality

10 feature is present in moderate or greater amounts and of highest quality

|      |        |          |                      | c.w.d. - count for pieces with minimum 1m length |                    |            |              |    |
|------|--------|----------|----------------------|--|--------------------|------------|--------------|----|
|      |        | no. of   | c.w.d.               | c.w.d.   | microhab.          | microhab.  | At aspect    | N  |
| mod# | corner | tussocks | no macro depressions | (2-12 cm)  | >40 cm interspers. | (12-40 cm) | -45 degrees  | NE |
| 1    | 0      | 0        | 0                    | 16   | 0                  | 2          | +90 degrees  | E  |
| 2    | 0      | 0        | 2                    | 2  | 0                  | 0          | +135 degrees | SE |
| 7    | 0      | 0        | 0                    | 4  | 1                  | 0          | +180 degrees | S  |
| 8    | 0      | 0        | 1                    | 10   | 2                  | 0          | +225 degrees | SW |
|      |        |          |                      |  |                    |            | +270 degrees | W  |
|      |        |          |                      |  |                    |            | +315 degrees | NW |

NOTE: tussocks and hummocks are counted in BOTH nested quadrat corners, but counts are aggregated.

macro depressions = macrotopographic depressions with module. These may extend into other modules and be counted again.

c.w.d. = coarse woody debris

microhab. interspers.: = overall ranking of plot microtopographic interspersion complexity using scale below

| COVER BY STRATA (% estimate using midpoints of ex: 3, 6, 13, 18%) |              |                 |
|---|--------------|-----------------|
| Strata  | Height Range | Total Cover (%) |
| Tree  | 5 - 4        | 83              |
| Shrub   | 6.5 - 5      | 13              |
| Herb  | 0 - 0.5      | 83              |
| (Floating)*   | -            |                 |
| (Aquatic)*  | -            |                 |

\* rooted and floating or slightly emersed  
 \*\* submerged, most plant mass below surface

SEE BACK OF PAGE FOR "TYPICAL"

STRATA DESCRIPTIONS. STRATA CAN VARY BY COVER TYPE.

COARSE WOODY DEBRIS\*\*\*  
 (Coarse Woody Debris)\*\*\*  
 Fine Woody Debris\*\*\*  
 Coarse Woody Debris\*\*\*

| CROWN COVER (DENSIOMETER): Make readings per module facing N, S, E, W. Place dot count in corresponding space. (4 dots per grid square) |   |   |
|---|---|---|
| Module  | N | S |
| 1   | 4 | 4 |
| 2   | 4 | 5 |
| 3   | 4 | 4 |
| 4   | 3 | 3 |
|   | 2 | 0 |

McNAB INDICES (degrees) + for up... for down  
 (FILLED OUT USING GIS PROGRAM - DO NOT FILL OUT IN FIELD)

| LF1* - TS1** |    | LF1* - TS1** |    |
|--------------|----|--------------|----|
| At aspect    | N  | At aspect    | N  |
| -45 degrees  | NE | +90 degrees  | E  |
| +90 degrees  | SE | +135 degrees | SE |
| +135 degrees | S  | +180 degrees | S  |
| +180 degrees | SW | +225 degrees | SW |
| +225 degrees | W  | +270 degrees | W  |
| +315 degrees | NW | +315 degrees | NW |

Landscape Index (position within landscape)  
 \*\* Terrain Shape Index (site microtopographic shape)

### COVER BY STRATA

| 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 <0.5m  
\*\*\*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.

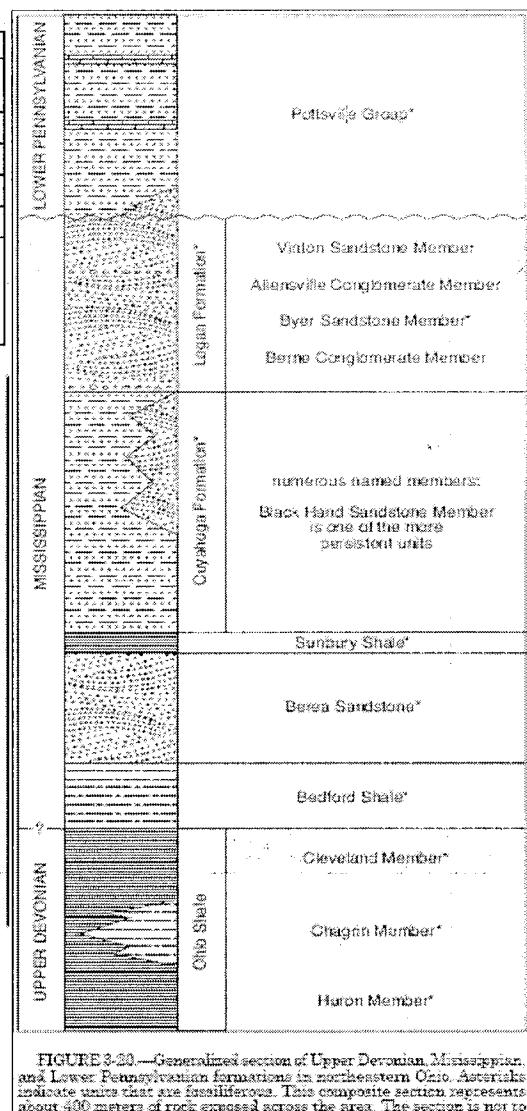
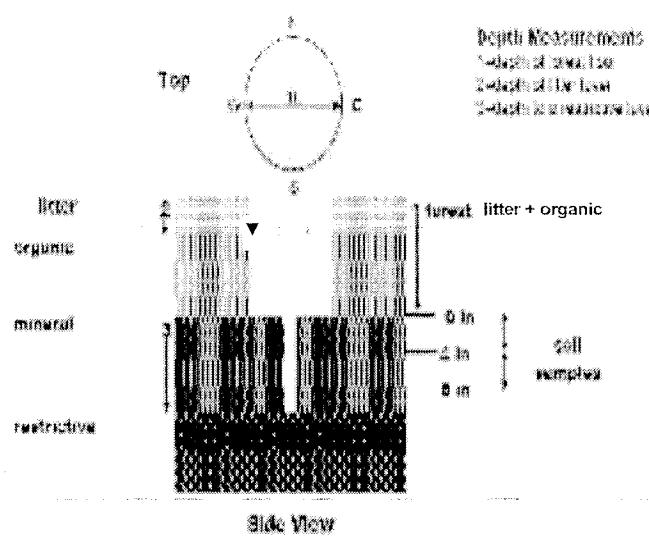


FIGURE 3-20.—Generalized section of Upper Devonian, Mississippian, and Lower Pennsylvanian formations in northeastern Ohio. Asterisks indicate units that are fossiliferous. This composite section represents about 400 meters of rock exposed across the area. The section is not to scale, but the thicknesses indicated are proportional. The term "Waverly" is used in the older literature to refer to Mississippian rocks in Ohio. Some geologists use the European term "Carboniferous," which encompasses the Mississippian and Pennsylvanian Periods of the U.S. Many units have been named within the Cuyahoga Formation, but most units are local and cannot be traced over great distances. The Black Hand Member is a spectacular massive sandstone that is fairly widespread but discontinuous. See Hyde (1933), Hoover (1960), and Collins (1978) for more information on Mississippian rocks in Ohio. See figure 3-18 for explanation of rock types.

JRM B-1: BUFFER SAMPLE PLOTS

Jnt)

Reviewed by (initial): \_\_\_\_\_

Site ID: 1173 Br 2011

DATE: 07/27/2011

Location:

• AA Center    O N    O S    O E    O W

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

O Plot 1    O Plot 2    O 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: |   | Absent: | Buffer Plot 2         | Canopy Type: |   | Absent:                               | Buffer Plot 3 | Canopy Type: |   | Absent: |   |
|---------------------------------------|--------------|---|---------|-----------------------|--------------|---|---------------------------------------|---------------|--------------|---|---------|---|
|                                       | D            | E |         |                       | B            | N |                                       |               | B            | N |         |   |
| Big Trees (>0.3m DBH)                 | 0            | 1 |         | Big Trees (>0.3m DBH) | 0            | 1 | 2                                     | 3             | 4            |   |         |   |
| Small Trees (<0.3m DBH)               | 0            | 1 | 2       | 3                     | 4            |   | Small Trees (<0.3m DBH)               | 0             | 1            | 2 | 3       | 4 |
| Woody Shrubs, Saplings (0.5m-5m HIGH) | 0            | 1 | 2       | 3                     | 4            |   | Woody Shrubs, Saplings (0.5m-5m HIGH) | 0             | 1            | 2 | 3       | 4 |
| Woody Shrubs, Saplings (<0.5m HIGH)   | 0            | 1 | 2       | 3                     | 4            |   | Woody Shrubs, Saplings (<0.5m HIGH)   | 0             | 1            | 2 | 3       | 4 |
| Herbs, Forbs and Grasses              | 0            | 1 | 2       | 3                     | 4            |   | Herbs, Forbs and Grasses              | 0             | 1            | 2 | 3       | 4 |
| Bare ground                           | 0            | 1 | 2       | 3                     | 4            |   | Bare ground                           | 0             | 1            | 2 | 3       | 4 |
| Litter, duff                          | 0            | 1 | 2       | 3                     | 4            |   | Litter, duff                          | 0             | 1            | 2 | 3       | 4 |
| Rock                                  | 0            | 1 | 2       | 3                     | 4            |   | Rock                                  | 0             | 1            | 2 | 3       | 4 |
| Water                                 | 0            | 1 | 2       | 3                     | 4            |   | Water                                 | 0             | 1            | 2 | 3       | 4 |
| Submerged Vegetation                  | 0            | 1 | 2       | 3                     | 4            |   | Submerged Vegetation                  | 0             | 1            | 2 | 3       | 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                   | ○ | ○ | ○ |                     | Ditches, Channelization                       | ○ | ○ | ○                              |      | Pasture/Hay                                  | ○ | ○ | ○ |      |  |
| Road - two lane                 | ○ | ○ | ○ |                     | Dike/Dam/Road/RR Bed<br>(IMPEDE FLOW)         | ○ | ○ | ○                              |      | Range  | ○ | ○ | ○ |      |  |
| Road - four lane                | ○ | ○ | ○ |                     | Water Level Control Structure                 | ○ | ○ | ○                              |      | Row Crops                                    | ○ | ○ | ○ |      |  |
| Parking Lot/Pavement            | ○ | ○ | ○ |                     | Excavation, Dredging                          | ○ | ○ | ○                              |      | Fallow Field (RECENT RESTING ROW CROP FIELD) | ○ | ○ | ○ |      |  |
| Golf Course                     | ○ | ○ | ○ |                     | Fill/Soil Banks                               | ○ | ○ | ○                              |      | Fallow Field (OLD GRASS SHRUBS TREES)        | ○ | ○ | ○ |      |  |
| Lawn/Park                       | ○ | ○ | ○ |                     | Freshly Deposited Sediment<br>(UNVEGETATED)   | ○ | ○ | ○                              |      | Nursery                                      | ○ | ○ | ○ |      |  |
| Suburban Residential            | ○ | ○ | ○ |                     | Soil Loss/Roof Exposure                       | ○ | ○ | ○                              |      | Dairy  | ○ | ○ | ○ |      |  |
| Urban/Multifamily               | ○ | ○ | ○ |                     | Wall/Riprap                                   | ○ | ○ | ○                              |      | Orchard                                      | ○ | ○ | ○ |      |  |
| Landfill                        | ○ | ○ | ○ |                     | Inlets, Outlets                               | ○ | ○ | ○                              |      | Confined Animal Feeding                      | ○ | ○ | ○ |      |  |
| Dumping                         | ○ | ○ | ○ |                     | Point Source/Pipe<br>(EFFLUENT OR STORMWATER) | ○ | ○ | ○                              |      | Rural Residential                            | ○ | ○ | ○ |      |  |
| Trash                           | ○ | ○ | ○ |                     | Impervious Surface Input<br>(SHEETFLOW)       | ○ | ○ | ○                              |      | Gravel Pit                                   | ○ | ○ | ○ |      |  |
| Other:                          | ○ | ○ | ○ |                     | Other: _____                                  | ○ | ○ | ○                              |      | Irrigation                                   | ○ | ○ | ○ |      |  |
| Other:                          | ○ | ○ | ○ |                     | Other: _____                                  | ○ | ○ | ○                              |      | Other: _____                                 | ○ | ○ | ○ |      |  |

| 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                     | ○ | ○ | ○ |                              | Forest Clear Cut                            | ○ | ○ | ○ |      | Herbicide Use                                 | ○ | ○ | ○ |      |  |
| Gas Wells                        | ○ | ○ | ○ |                              | Forest Selective Cut                        | ○ | ○ | ○ |      | Mowing/Shrub Cutting                          | ○ | ○ | ○ |      |  |
| Mine (surface)                   | ○ | ○ | ○ |                              | Tree Plantation                             | ○ | ○ | ○ |      | Trails  | ● | ○ | ○ |      |  |
| Mine (underground)               | ○ | ○ | ○ |                              | Tree Canopy Herbivory<br>(INSECT)           | ○ | ○ | ○ |      | Soil Compaction<br>(ANIMAL OR HUMAN)          | ○ | ○ | ○ |      |  |
| Military                         | ○ | ○ | ○ |                              | Shrub Layer browsed<br>(WILD OR DOMESTIC)   | ○ | ○ | ○ |      | Offroad vehicle damage                        | ○ | ○ | ○ |      |  |
| Other:                           | ○ | ○ | ○ |                              | Highly Grazed Grasses<br>(OVERALL <3' HIGH) | ○ | ○ | ○ |      | Soil erosion (FROM WIND, WATER<br>OR OVERUSE) | ○ | ○ | ○ |      |  |
| Other:                           | ○ | ○ | ○ |                              | Recently Burned Forest<br>Canopy            | ○ | ○ | ○ |      | Other: _____                                  | ○ | ○ | ○ |      |  |
| Other:                           | ○ | ○ | ○ |                              | Recently Burned Grassland<br>(BLACKENED)    | ○ | ○ | ○ |      | Other: _____                                  | ○ | ○ | ○ |      |  |

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

7966623548

| PLOT COORDINATES  |  |  |          |  |  |  |  |  |  |
|---|--|--|----------|--|--|--|--|--|--|
| Flag  |  |  | Comments |  |  |  |  |  |  |
| Latitude North 41 31 59 28.2 Longitude West 081 17 66 Use Decimal Degrees NAD83   |  |  |          |  |  |  |  |  |  |
| <input checked="" type="checkbox"/> AA CENTER <input type="checkbox"/> N3 <input type="checkbox"/> S3 <input type="checkbox"/> E3 <input type="checkbox"/> W3 <input type="checkbox"/> Nearest Practicable Location (Flag and comment below)  |  |  |          |  |  |  |  |  |  |
| Flag<br>Location of coordinates (choose one):<br><br><input type="checkbox"/> Birdfoot Trefoil <input type="checkbox"/> Common Reed <input type="checkbox"/> Leafy Spurge <input type="checkbox"/> Other<br><input type="checkbox"/> Canada Thistle <input type="checkbox"/> Common Reed <input type="checkbox"/> Leafy Spurge <input type="checkbox"/> Other<br><input type="checkbox"/> Garlic Mustard <input type="checkbox"/> Glant Reed <input type="checkbox"/> Other<br><input type="checkbox"/> Giant Swertia <input type="checkbox"/> Perennial Pepperweed <input type="checkbox"/> Other<br><input type="checkbox"/> Yellow Flowering Fleabane <input type="checkbox"/> Japanese Knotweed <input type="checkbox"/> Multiflora Rose <input type="checkbox"/> Other<br><input type="checkbox"/> Water Hyacinth <input type="checkbox"/> Knotweed <input type="checkbox"/> Kudzu <input type="checkbox"/> Other<br><input type="checkbox"/> Eurasian Watermilfoil <input type="checkbox"/> Purple Loosestrife <input type="checkbox"/> Johnson Grass <input type="checkbox"/> Other<br><input type="checkbox"/> Fill bubble if present - Plot 1 <input type="checkbox"/> Flag <input type="checkbox"/> Fill bubble if present - Plot 1 <input type="checkbox"/> Flag <input type="checkbox"/> Fill bubble if present - Plot 2 <input type="checkbox"/> Flag <input type="checkbox"/> Fill bubble if present - Plot 2 <input type="checkbox"/> Flag <input type="checkbox"/> Fill bubble if present - Plot 3 <input type="checkbox"/> Flag <input type="checkbox"/> Fill bubble if present - Plot 3 <input type="checkbox"/> Flag |  |  |          |  |  |  |  |  |  |
| ● Confirm a filled data bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble  |  |  |          |  |  |  |  |  |  |
| Reviewed by (initials) _____ Date 07/27/2011 Site ID: 1173 Br 2011  |  |  |          |  |  |  |  |  |  |
| FORM B-1: BUFFER SAMPLE PLOTS - TARGETED ALIEN SPECIES (Back)   |  |  |          |  |  |  |  |  |  |



| PLOT COORDINATES  |   |   |      |                                 |   |   |      |                                 |   |
|---|---|---|------|---------------------------------|---|---|------|---------------------------------|---|
| Latitude North 41 31 71 3 Longitude West 0 81 59 2 6.9  |   |   |      |                                 |   |   |      |                                 |   |
| Use Decimal Degrees NAD83   |   |   |      |                                 |   |   |      |                                 |   |
| Flag Comments   |   |   |      |                                 |   |   |      |                                 |   |
| 1 PLS 2 and 3 fall on opposite side of river  |   |   |      |                                 |   |   |      |                                 |   |
| 2 PS 6 at far end of river  |   |   |      |                                 |   |   |      |                                 |   |
| Flag Location of coordinates (choose one):  |   |   |      |                                 |   |   |      |                                 |   |
| O AA CENTER O N3 O S3 O WS O Nearest practicable location (flag and comment below)  |   |   |      |                                 |   |   |      |                                 |   |
| Flag  |   |   |      |                                 |   |   |      |                                 |   |
| Plot 3 can not be accessed, take the nearest practicable location ALONG THE TRANSCT. This is important because all Buffer Plots are centered on the Buffer Transsects and the coordinates will indicate the location of the nearest practicable location. Plots are centered where the coordinates were taken and why in the comment section below. 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. |   |   |      |                                 |   |   |      |                                 |   |
| Flag box and descriptive where the coordinates were taken and why in the comment section below. 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.   |   |   |      |                                 |   |   |      |                                 |   |
| 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   |   |   |      |                                 |   |   |      |                                 |   |
| 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   |   |   |      |                                 |   |   |      |                                 |   |
| PLOT COORDINATES  |   |   |      |                                 |   |   |      |                                 |   |
| 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 |
| • Confirm a filled data bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble  |   |   |      |                                 |   |   |      |                                 |   |
| Site ID: 0173 BR 2011 DATE: 07/27/2011  |   |   |      |                                 |   |   |      |                                 |   |
| Reviewed by (initials)  |   |   |      |                                 |   |   |      |                                 |   |
| FORM B-1: BUFFER SAMPLE PLOTS - TARGETED ALIEN SPECIES (Back)   |   |   |      |                                 |   |   |      |                                 |   |



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

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

Site ID: 1173 Br-2011 DATE: 07/27/2011

Reviewed by (initials):

| PLOT COORDINATES        |                          |                          |                          |                         |                          |                          |                          |                          |                                 |
|-------------------------|--------------------------|--------------------------|--------------------------|-------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------------|
|                         | 1                        | 2                        | 3                        | Flag                    | 1                        | 2                        | 3                        | Flag                     | 1                               |
| Eurostian Wall-millfoil | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Purple Loosestrife      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Flag                     | Fill bubble if present - Plot 1 |
| Water Hyacinth          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Knotweed                | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Rudiza                   | Fill bubble if present - Plot 1 |
| Yellow Floating Heart   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Japonese Knotweed       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Millettia Rose           | Fill bubble if present - Plot 1 |
| Giant Salsify           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Pennisetum Pepperweed   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Common Buckthorn         | Fill bubble if present - Plot 1 |
| Garlic Mustard          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Giant Reed              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Himalayan Blackberry     | Fill bubble if present - Plot 1 |
| Poison Hemlock          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Chesagrass              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Tamansk                  | Fill bubble if present - Plot 1 |
| Mile-A-Minute Weed      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Rabbit Cherry Grass     | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Other                    | Fill bubble if present - Plot 1 |
| Birdsfoot Trefoil       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Common Reed             | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Other                    | Fill bubble if present - Plot 1 |
| Canadian Thistle        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Early Sprague           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Other                    | Fill bubble if present - Plot 1 |
| 2                       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Latitude North 41.31773 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Longitude West 081.59305 | Fill bubble if present - Plot 1 |

|   |  |  |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|--|--|
| Flag Comments   |  |  |  |  |  |  |  |  |  |
| Use Decimal Degrees: NAD83  |  |  |  |  |  |  |  |  |  |
| Plot 2 and 3 fall across river  |  |  |  |  |  |  |  |  |  |
| Lots 65 part in at plot 1 on edge of river  |  |  |  |  |  |  |  |  |  |
| Flag  |  |  |  |  |  |  |  |  |  |
| Location of coordinates (choose one):   |  |  |  |  |  |  |  |  |  |
| O AA CENTER O N3 O S3 O E3 O W3 <input checked="" type="checkbox"/> Nearest practicable location (Flag and comment below) |  |  |  |  |  |  |  |  |  |



| FORM B-1: BUFFER SAMPLE PLOTS - TARGETED ALIEN SPECIES (Back)   |                          |                          |   |                          |                          |  |                          |                          |  |                          |                          |                                 |  |  |                                 |  |  |                                 |  |  |      |  |  |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                       |  |  |                    |  |  |               |  |  |       |  |  |                |  |  |          |  |  |       |  |  |       |  |  |                       |  |  |                   |  |  |                 |  |  |       |  |  |             |  |  |                     |  |  |                  |  |  |       |  |  |               |  |  |            |  |  |                      |  |  |       |  |  |                  |  |  |            |  |  |       |  |  |       |  |  |                    |  |  |                  |  |  |       |  |  |       |  |  |                   |  |  |             |  |  |       |  |  |       |  |  |                  |  |  |               |  |  |       |  |  |       |  |  |      |  |  |                                       |  |  |  |  |  |  |  |  |                               |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |                          |  |  |                            |  |  |                            |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |          |  |  |  |  |  |  |  |  |
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| Reviewed by (initials) _____  |                          |                          |   |                          |                          |  |                          |                          |  |                          |                          |                                 |  |  |                                 |  |  |                                 |  |  |      |  |  |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                       |  |  |                    |  |  |               |  |  |       |  |  |                |  |  |          |  |  |       |  |  |       |  |  |                       |  |  |                   |  |  |                 |  |  |       |  |  |             |  |  |                     |  |  |                  |  |  |       |  |  |               |  |  |            |  |  |                      |  |  |       |  |  |                  |  |  |            |  |  |       |  |  |       |  |  |                    |  |  |                  |  |  |       |  |  |       |  |  |                   |  |  |             |  |  |       |  |  |       |  |  |                  |  |  |               |  |  |       |  |  |       |  |  |      |  |  |                                       |  |  |  |  |  |  |  |  |                               |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |                          |  |  |                            |  |  |                            |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |          |  |  |  |  |  |  |  |  |
| Site ID: 1173 Br 204 Date: 07/27/2011   |                          |                          |   |                          |                          |  |                          |                          |  |                          |                          |                                 |  |  |                                 |  |  |                                 |  |  |      |  |  |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                       |  |  |                    |  |  |               |  |  |       |  |  |                |  |  |          |  |  |       |  |  |       |  |  |                       |  |  |                   |  |  |                 |  |  |       |  |  |             |  |  |                     |  |  |                  |  |  |       |  |  |               |  |  |            |  |  |                      |  |  |       |  |  |                  |  |  |            |  |  |       |  |  |       |  |  |                    |  |  |                  |  |  |       |  |  |       |  |  |                   |  |  |             |  |  |       |  |  |       |  |  |                  |  |  |               |  |  |       |  |  |       |  |  |      |  |  |                                       |  |  |  |  |  |  |  |  |                               |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |                          |  |  |                            |  |  |                            |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |          |  |  |  |  |  |  |  |  |
| Countim a filled data bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble  |                          |                          |   |                          |                          |  |                          |                          |  |                          |                          |                                 |  |  |                                 |  |  |                                 |  |  |      |  |  |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                       |  |  |                    |  |  |               |  |  |       |  |  |                |  |  |          |  |  |       |  |  |       |  |  |                       |  |  |                   |  |  |                 |  |  |       |  |  |             |  |  |                     |  |  |                  |  |  |       |  |  |               |  |  |            |  |  |                      |  |  |       |  |  |                  |  |  |            |  |  |       |  |  |       |  |  |                    |  |  |                  |  |  |       |  |  |       |  |  |                   |  |  |             |  |  |       |  |  |       |  |  |                  |  |  |               |  |  |       |  |  |       |  |  |      |  |  |                                       |  |  |  |  |  |  |  |  |                               |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |                          |  |  |                            |  |  |                            |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |          |  |  |  |  |  |  |  |  |
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| <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"/> | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/> |                                 |  |  |                                 |  |  |                                 |  |  |      |  |  |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                       |  |  |                    |  |  |               |  |  |       |  |  |                |  |  |          |  |  |       |  |  |       |  |  |                       |  |  |                   |  |  |                 |  |  |       |  |  |             |  |  |                     |  |  |                  |  |  |       |  |  |               |  |  |            |  |  |                      |  |  |       |  |  |                  |  |  |            |  |  |       |  |  |       |  |  |                    |  |  |                  |  |  |       |  |  |       |  |  |                   |  |  |             |  |  |       |  |  |       |  |  |                  |  |  |               |  |  |       |  |  |       |  |  |      |  |  |                                       |  |  |  |  |  |  |  |  |                               |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |                          |  |  |                            |  |  |                            |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |          |  |  |  |  |  |  |  |  |
| Eurasian Watermilfoil   |                          |                          | Purple Loosestrife                                      |                          |                          | Johnson Grass  |                          |                          | Other  |                          |                          |                                 |  |  |                                 |  |  |                                 |  |  |      |  |  |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                       |  |  |                    |  |  |               |  |  |       |  |  |                |  |  |          |  |  |       |  |  |       |  |  |                       |  |  |                   |  |  |                 |  |  |       |  |  |             |  |  |                     |  |  |                  |  |  |       |  |  |               |  |  |            |  |  |                      |  |  |       |  |  |                  |  |  |            |  |  |       |  |  |       |  |  |                    |  |  |                  |  |  |       |  |  |       |  |  |                   |  |  |             |  |  |       |  |  |       |  |  |                  |  |  |               |  |  |       |  |  |       |  |  |      |  |  |                                       |  |  |  |  |  |  |  |  |                               |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |                          |  |  |                            |  |  |                            |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |          |  |  |  |  |  |  |  |  |
| Water Hyacinth  |                          |                          | Knotweed  |                          |                          | Kudzu  |                          |                          | Other  |                          |                          |                                 |  |  |                                 |  |  |                                 |  |  |      |  |  |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                       |  |  |                    |  |  |               |  |  |       |  |  |                |  |  |          |  |  |       |  |  |       |  |  |                       |  |  |                   |  |  |                 |  |  |       |  |  |             |  |  |                     |  |  |                  |  |  |       |  |  |               |  |  |            |  |  |                      |  |  |       |  |  |                  |  |  |            |  |  |       |  |  |       |  |  |                    |  |  |                  |  |  |       |  |  |       |  |  |                   |  |  |             |  |  |       |  |  |       |  |  |                  |  |  |               |  |  |       |  |  |       |  |  |      |  |  |                                       |  |  |  |  |  |  |  |  |                               |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |                          |  |  |                            |  |  |                            |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |          |  |  |  |  |  |  |  |  |
| Yellow Floating Heart   |                          |                          | Japanese Knotweed                                       |                          |                          | Multiflora Rose  |                          |                          | Other  |                          |                          |                                 |  |  |                                 |  |  |                                 |  |  |      |  |  |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                       |  |  |                    |  |  |               |  |  |       |  |  |                |  |  |          |  |  |       |  |  |       |  |  |                       |  |  |                   |  |  |                 |  |  |       |  |  |             |  |  |                     |  |  |                  |  |  |       |  |  |               |  |  |            |  |  |                      |  |  |       |  |  |                  |  |  |            |  |  |       |  |  |       |  |  |                    |  |  |                  |  |  |       |  |  |       |  |  |                   |  |  |             |  |  |       |  |  |       |  |  |                  |  |  |               |  |  |       |  |  |       |  |  |      |  |  |                                       |  |  |  |  |  |  |  |  |                               |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |                          |  |  |                            |  |  |                            |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |          |  |  |  |  |  |  |  |  |
| Giant Sedum   |                          |                          | Fernleaf Pepperweed                                     |                          |                          | Common Buckthorn   |                          |                          | Other  |                          |                          |                                 |  |  |                                 |  |  |                                 |  |  |      |  |  |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                       |  |  |                    |  |  |               |  |  |       |  |  |                |  |  |          |  |  |       |  |  |       |  |  |                       |  |  |                   |  |  |                 |  |  |       |  |  |             |  |  |                     |  |  |                  |  |  |       |  |  |               |  |  |            |  |  |                      |  |  |       |  |  |                  |  |  |            |  |  |       |  |  |       |  |  |                    |  |  |                  |  |  |       |  |  |       |  |  |                   |  |  |             |  |  |       |  |  |       |  |  |                  |  |  |               |  |  |       |  |  |       |  |  |      |  |  |                                       |  |  |  |  |  |  |  |  |                               |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |                          |  |  |                            |  |  |                            |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |          |  |  |  |  |  |  |  |  |
| Giant Mustard   |                          |                          | Giant Reed  |                          |                          | Himalayan Blackberry   |                          |                          | Other  |                          |                          |                                 |  |  |                                 |  |  |                                 |  |  |      |  |  |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                       |  |  |                    |  |  |               |  |  |       |  |  |                |  |  |          |  |  |       |  |  |       |  |  |                       |  |  |                   |  |  |                 |  |  |       |  |  |             |  |  |                     |  |  |                  |  |  |       |  |  |               |  |  |            |  |  |                      |  |  |       |  |  |                  |  |  |            |  |  |       |  |  |       |  |  |                    |  |  |                  |  |  |       |  |  |       |  |  |                   |  |  |             |  |  |       |  |  |       |  |  |                  |  |  |               |  |  |       |  |  |       |  |  |      |  |  |                                       |  |  |  |  |  |  |  |  |                               |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |                          |  |  |                            |  |  |                            |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |          |  |  |  |  |  |  |  |  |
| Pisonia Flemlock  |                          |                          | Cheatgrass  |                          |                          | Tansy  |                          |                          | Other  |                          |                          |                                 |  |  |                                 |  |  |                                 |  |  |      |  |  |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                       |  |  |                    |  |  |               |  |  |       |  |  |                |  |  |          |  |  |       |  |  |       |  |  |                       |  |  |                   |  |  |                 |  |  |       |  |  |             |  |  |                     |  |  |                  |  |  |       |  |  |               |  |  |            |  |  |                      |  |  |       |  |  |                  |  |  |            |  |  |       |  |  |       |  |  |                    |  |  |                  |  |  |       |  |  |       |  |  |                   |  |  |             |  |  |       |  |  |       |  |  |                  |  |  |               |  |  |       |  |  |       |  |  |      |  |  |                                       |  |  |  |  |  |  |  |  |                               |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |                          |  |  |                            |  |  |                            |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |          |  |  |  |  |  |  |  |  |
| Mile A Minute Weed  |                          |                          | Red Canary Grass  |                          |                          | Other  |                          |                          | Other  |                          |                          |                                 |  |  |                                 |  |  |                                 |  |  |      |  |  |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                       |  |  |                    |  |  |               |  |  |       |  |  |                |  |  |          |  |  |       |  |  |       |  |  |                       |  |  |                   |  |  |                 |  |  |       |  |  |             |  |  |                     |  |  |                  |  |  |       |  |  |               |  |  |            |  |  |                      |  |  |       |  |  |                  |  |  |            |  |  |       |  |  |       |  |  |                    |  |  |                  |  |  |       |  |  |       |  |  |                   |  |  |             |  |  |       |  |  |       |  |  |                  |  |  |               |  |  |       |  |  |       |  |  |      |  |  |                                       |  |  |  |  |  |  |  |  |                               |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |                          |  |  |                            |  |  |                            |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |          |  |  |  |  |  |  |  |  |
| Birdsfoot Trefoil   |                          |                          | Common Reed   |                          |                          | Other  |                          |                          | Other  |                          |                          |                                 |  |  |                                 |  |  |                                 |  |  |      |  |  |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                       |  |  |                    |  |  |               |  |  |       |  |  |                |  |  |          |  |  |       |  |  |       |  |  |                       |  |  |                   |  |  |                 |  |  |       |  |  |             |  |  |                     |  |  |                  |  |  |       |  |  |               |  |  |            |  |  |                      |  |  |       |  |  |                  |  |  |            |  |  |       |  |  |       |  |  |                    |  |  |                  |  |  |       |  |  |       |  |  |                   |  |  |             |  |  |       |  |  |       |  |  |                  |  |  |               |  |  |       |  |  |       |  |  |      |  |  |                                       |  |  |  |  |  |  |  |  |                               |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |                          |  |  |                            |  |  |                            |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |          |  |  |  |  |  |  |  |  |
| Canadian Thistle  |                          |                          | Leary Sprague   |                          |                          | Other  |                          |                          | Other  |                          |                          |                                 |  |  |                                 |  |  |                                 |  |  |      |  |  |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                       |  |  |                    |  |  |               |  |  |       |  |  |                |  |  |          |  |  |       |  |  |       |  |  |                       |  |  |                   |  |  |                 |  |  |       |  |  |             |  |  |                     |  |  |                  |  |  |       |  |  |               |  |  |            |  |  |                      |  |  |       |  |  |                  |  |  |            |  |  |       |  |  |       |  |  |                    |  |  |                  |  |  |       |  |  |       |  |  |                   |  |  |             |  |  |       |  |  |       |  |  |                  |  |  |               |  |  |       |  |  |       |  |  |      |  |  |                                       |  |  |  |  |  |  |  |  |                               |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |                          |  |  |                            |  |  |                            |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |          |  |  |  |  |  |  |  |  |
| Flag  |                          |                          | Location of coordinates (choose one):                   |                          |                          | 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. |                          |                          | 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. |                          |                          |                                 |  |  |                                 |  |  |                                 |  |  |      |  |  |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                       |  |  |                    |  |  |               |  |  |       |  |  |                |  |  |          |  |  |       |  |  |       |  |  |                       |  |  |                   |  |  |                 |  |  |       |  |  |             |  |  |                     |  |  |                  |  |  |       |  |  |               |  |  |            |  |  |                      |  |  |       |  |  |                  |  |  |            |  |  |       |  |  |       |  |  |                    |  |  |                  |  |  |       |  |  |       |  |  |                   |  |  |             |  |  |       |  |  |       |  |  |                  |  |  |               |  |  |       |  |  |       |  |  |      |  |  |                                       |  |  |  |  |  |  |  |  |                               |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |                          |  |  |                            |  |  |                            |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |          |  |  |  |  |  |  |  |  |
| AA CENTER ● N3 O S3 O E3 O W3   |                          |                          | O Nearest practicable location (flag and comment below) |                          |                          |  |                          |                          |  |                          |                          |                                 |  |  |                                 |  |  |                                 |  |  |      |  |  |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                       |  |  |                    |  |  |               |  |  |       |  |  |                |  |  |          |  |  |       |  |  |       |  |  |                       |  |  |                   |  |  |                 |  |  |       |  |  |             |  |  |                     |  |  |                  |  |  |       |  |  |               |  |  |            |  |  |                      |  |  |       |  |  |                  |  |  |            |  |  |       |  |  |       |  |  |                    |  |  |                  |  |  |       |  |  |       |  |  |                   |  |  |             |  |  |       |  |  |       |  |  |                  |  |  |               |  |  |       |  |  |       |  |  |      |  |  |                                       |  |  |  |  |  |  |  |  |                               |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |                          |  |  |                            |  |  |                            |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |          |  |  |  |  |  |  |  |  |
| <table border="1"> <thead> <tr> <th colspan="3">Latitude North 41-31-875</th> <th colspan="3">Longitude West 0.81-59-247</th> <th colspan="3">Use Decimal Degrees, NAD83</th> </tr> </thead> <tbody> <tr> <td colspan="3"></td> <td colspan="3"></td> <td colspan="3"></td> </tr> </tbody> </table>   |                          |                          |   |                          |                          |  |                          |                          |  |                          |                          | Latitude North 41-31-875        |  |  | Longitude West 0.81-59-247      |  |  | Use Decimal Degrees, NAD83      |  |  |      |  |  |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                       |  |  |                    |  |  |               |  |  |       |  |  |                |  |  |          |  |  |       |  |  |       |  |  |                       |  |  |                   |  |  |                 |  |  |       |  |  |             |  |  |                     |  |  |                  |  |  |       |  |  |               |  |  |            |  |  |                      |  |  |       |  |  |                  |  |  |            |  |  |       |  |  |       |  |  |                    |  |  |                  |  |  |       |  |  |       |  |  |                   |  |  |             |  |  |       |  |  |       |  |  |                  |  |  |               |  |  |       |  |  |       |  |  |      |  |  |                                       |  |  |  |  |  |  |  |  |                               |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |                          |  |  |                            |  |  |                            |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |          |  |  |  |  |  |  |  |  |
| Latitude North 41-31-875  |                          |                          | Longitude West 0.81-59-247                              |                          |                          | Use Decimal Degrees, NAD83   |                          |                          |  |                          |                          |                                 |  |  |                                 |  |  |                                 |  |  |      |  |  |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                       |  |  |                    |  |  |               |  |  |       |  |  |                |  |  |          |  |  |       |  |  |       |  |  |                       |  |  |                   |  |  |                 |  |  |       |  |  |             |  |  |                     |  |  |                  |  |  |       |  |  |               |  |  |            |  |  |                      |  |  |       |  |  |                  |  |  |            |  |  |       |  |  |       |  |  |                    |  |  |                  |  |  |       |  |  |       |  |  |                   |  |  |             |  |  |       |  |  |       |  |  |                  |  |  |               |  |  |       |  |  |       |  |  |      |  |  |                                       |  |  |  |  |  |  |  |  |                               |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |                          |  |  |                            |  |  |                            |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |          |  |  |  |  |  |  |  |  |
|   |                          |                          |   |                          |                          |  |                          |                          |  |                          |                          |                                 |  |  |                                 |  |  |                                 |  |  |      |  |  |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                       |  |  |                    |  |  |               |  |  |       |  |  |                |  |  |          |  |  |       |  |  |       |  |  |                       |  |  |                   |  |  |                 |  |  |       |  |  |             |  |  |                     |  |  |                  |  |  |       |  |  |               |  |  |            |  |  |                      |  |  |       |  |  |                  |  |  |            |  |  |       |  |  |       |  |  |                    |  |  |                  |  |  |       |  |  |       |  |  |                   |  |  |             |  |  |       |  |  |       |  |  |                  |  |  |               |  |  |       |  |  |       |  |  |      |  |  |                                       |  |  |  |  |  |  |  |  |                               |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |                          |  |  |                            |  |  |                            |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |          |  |  |  |  |  |  |  |  |
| <table border="1"> <thead> <tr> <th colspan="3">Flag</th> <th colspan="3">Comments</th> </tr> </thead> <tbody> <tr> <td colspan="3"></td> <td colspan="3"></td> </tr> </tbody> </table>   |                          |                          |   |                          |                          |  |                          |                          |  |                          |                          | Flag                            |  |  | Comments                        |  |  |                                 |  |  |      |  |  |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                       |  |  |                    |  |  |               |  |  |       |  |  |                |  |  |          |  |  |       |  |  |       |  |  |                       |  |  |                   |  |  |                 |  |  |       |  |  |             |  |  |                     |  |  |                  |  |  |       |  |  |               |  |  |            |  |  |                      |  |  |       |  |  |                  |  |  |            |  |  |       |  |  |       |  |  |                    |  |  |                  |  |  |       |  |  |       |  |  |                   |  |  |             |  |  |       |  |  |       |  |  |                  |  |  |               |  |  |       |  |  |       |  |  |      |  |  |                                       |  |  |  |  |  |  |  |  |                               |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |                          |  |  |                            |  |  |                            |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |          |  |  |  |  |  |  |  |  |
| Flag  |                          |                          | Comments  |                          |                          |  |                          |                          |  |                          |                          |                                 |  |  |                                 |  |  |                                 |  |  |      |  |  |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                       |  |  |                    |  |  |               |  |  |       |  |  |                |  |  |          |  |  |       |  |  |       |  |  |                       |  |  |                   |  |  |                 |  |  |       |  |  |             |  |  |                     |  |  |                  |  |  |       |  |  |               |  |  |            |  |  |                      |  |  |       |  |  |                  |  |  |            |  |  |       |  |  |       |  |  |                    |  |  |                  |  |  |       |  |  |       |  |  |                   |  |  |             |  |  |       |  |  |       |  |  |                  |  |  |               |  |  |       |  |  |       |  |  |      |  |  |                                       |  |  |  |  |  |  |  |  |                               |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |                          |  |  |                            |  |  |                            |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |          |  |  |  |  |  |  |  |  |
|   |                          |                          |   |                          |                          |  |                          |                          |  |                          |                          |                                 |  |  |                                 |  |  |                                 |  |  |      |  |  |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                       |  |  |                    |  |  |               |  |  |       |  |  |                |  |  |          |  |  |       |  |  |       |  |  |                       |  |  |                   |  |  |                 |  |  |       |  |  |             |  |  |                     |  |  |                  |  |  |       |  |  |               |  |  |            |  |  |                      |  |  |       |  |  |                  |  |  |            |  |  |       |  |  |       |  |  |                    |  |  |                  |  |  |       |  |  |       |  |  |                   |  |  |             |  |  |       |  |  |       |  |  |                  |  |  |               |  |  |       |  |  |       |  |  |      |  |  |                                       |  |  |  |  |  |  |  |  |                               |  |  |   |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |                          |  |  |                            |  |  |                            |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |      |  |  |          |  |  |  |  |  |  |  |  |



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| FORM B-1: BUFFER SAMPLE PLOTS - TARGETED ALIEN SPECIES (Back)   |                          |                          |                                 |                          |                          |                                 |                          |                          |                      |                          |                          |                                 |  |  |                                 |  |  |                                 |  |  |      |  |  |                       |                          |                          |                    |                          |                          |               |                          |                          |       |                          |                          |                |                          |                          |          |                          |                          |                 |                          |                          |            |                          |                          |                       |                          |                          |                   |                          |                          |                    |                          |                          |                      |                          |                          |               |                          |                          |                       |                          |                          |                  |                          |                          |              |                          |                          |                |                          |                          |            |                          |                          |               |                          |                          |             |                          |                          |                    |                          |                          |                   |                          |                          |       |                          |                          |             |                          |                          |                   |                          |                          |             |                          |                          |       |                          |                          |             |                          |                          |                |                          |                          |                   |                          |                          |       |                          |                          |                |                          |                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |                                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |
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| Review by (initials)  |                          |                          |                                 |                          |                          |                                 |                          |                          |                      |                          |                          |                                 |  |  |                                 |  |  |                                 |  |  |      |  |  |                       |                          |                          |                    |                          |                          |               |                          |                          |       |                          |                          |                |                          |                          |          |                          |                          |                 |                          |                          |            |                          |                          |                       |                          |                          |                   |                          |                          |                    |                          |                          |                      |                          |                          |               |                          |                          |                       |                          |                          |                  |                          |                          |              |                          |                          |                |                          |                          |            |                          |                          |               |                          |                          |             |                          |                          |                    |                          |                          |                   |                          |                          |       |                          |                          |             |                          |                          |                   |                          |                          |             |                          |                          |       |                          |                          |             |                          |                          |                |                          |                          |                   |                          |                          |       |                          |                          |                |                          |                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |                                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |
| Site ID: 1173 B-261 DATE: 07/27/2011  |                          |                          |                                 |                          |                          |                                 |                          |                          |                      |                          |                          |                                 |  |  |                                 |  |  |                                 |  |  |      |  |  |                       |                          |                          |                    |                          |                          |               |                          |                          |       |                          |                          |                |                          |                          |          |                          |                          |                 |                          |                          |            |                          |                          |                       |                          |                          |                   |                          |                          |                    |                          |                          |                      |                          |                          |               |                          |                          |                       |                          |                          |                  |                          |                          |              |                          |                          |                |                          |                          |            |                          |                          |               |                          |                          |             |                          |                          |                    |                          |                          |                   |                          |                          |       |                          |                          |             |                          |                          |                   |                          |                          |             |                          |                          |       |                          |                          |             |                          |                          |                |                          |                          |                   |                          |                          |       |                          |                          |                |                          |                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |                                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |
| • Confirm a filled data bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble  |                          |                          |                                 |                          |                          |                                 |                          |                          |                      |                          |                          |                                 |  |  |                                 |  |  |                                 |  |  |      |  |  |                       |                          |                          |                    |                          |                          |               |                          |                          |       |                          |                          |                |                          |                          |          |                          |                          |                 |                          |                          |            |                          |                          |                       |                          |                          |                   |                          |                          |                    |                          |                          |                      |                          |                          |               |                          |                          |                       |                          |                          |                  |                          |                          |              |                          |                          |                |                          |                          |            |                          |                          |               |                          |                          |             |                          |                          |                    |                          |                          |                   |                          |                          |       |                          |                          |             |                          |                          |                   |                          |                          |             |                          |                          |       |                          |                          |             |                          |                          |                |                          |                          |                   |                          |                          |       |                          |                          |                |                          |                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |                                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |
| <table border="1"> <thead> <tr> <th colspan="3">Fill bubble if present - Plot 1</th> <th colspan="3">Fill bubble if present - Plot 2</th> <th colspan="3">Fill bubble if present - Plot 3</th> <th colspan="3">Flag</th> </tr> </thead> <tbody> <tr> <td>Eurasian Watermilfoil</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Purple Loosestrife</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Juncion Grass</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Kudzu</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Water Hyacinth</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Knotweed</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Multiflora Rose</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Giant Reed</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Yellow Floating Heart</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Japanese Knotweed</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Cornmeal Buckthorn</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Himalayan Blackberry</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Giant Sambava</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Pereennial Pepperweed</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Common Buckthorn</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Chesnutgrass</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Poison Hemlock</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Giant Reed</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Lambsquarters</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Rabbitbrush</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Mile-A-Minute Weed</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Reed Canary Grass</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Other</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Common Reed</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Birdsfoot Trefoil</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Common Reed</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Other</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Leary Sedge</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Canada Thistle</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Reed Canary Grass</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Other</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Canada Thistle</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td colspan="12">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. 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| Eurasian Watermilfoil   | <input type="checkbox"/> | <input type="checkbox"/> | Purple Loosestrife              | <input type="checkbox"/> | <input type="checkbox"/> | Juncion Grass                   | <input type="checkbox"/> | <input type="checkbox"/> | Kudzu                | <input type="checkbox"/> | <input type="checkbox"/> |                                 |  |  |                                 |  |  |                                 |  |  |      |  |  |                       |                          |                          |                    |                          |                          |               |                          |                          |       |                          |                          |                |                          |                          |          |                          |                          |                 |                          |                          |            |                          |                          |                       |                          |                          |                   |                          |                          |                    |                          |                          |                      |                          |                          |               |                          |                          |                       |                          |                          |                  |                          |                          |              |                          |                          |                |                          |                          |            |                          |                          |               |                          |                          |             |                          |                          |                    |                          |                          |                   |                          |                          |       |                          |                          |             |                          |                          |                   |                          |                          |             |                          |                          |       |                          |                          |             |                          |                          |                |                          |                          |                   |                          |                          |       |                          |                          |                |                          |                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |                                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |
| Water Hyacinth  | <input type="checkbox"/> | <input type="checkbox"/> | Knotweed                        | <input type="checkbox"/> | <input type="checkbox"/> | Multiflora Rose                 | <input type="checkbox"/> | <input type="checkbox"/> | Giant Reed           | <input type="checkbox"/> | <input type="checkbox"/> |                                 |  |  |                                 |  |  |                                 |  |  |      |  |  |                       |                          |                          |                    |                          |                          |               |                          |                          |       |                          |                          |                |                          |                          |          |                          |                          |                 |                          |                          |            |                          |                          |                       |                          |                          |                   |                          |                          |                    |                          |                          |                      |                          |                          |               |                          |                          |                       |                          |                          |                  |                          |                          |              |                          |                          |                |                          |                          |            |                          |                          |               |                          |                          |             |                          |                          |                    |                          |                          |                   |                          |                          |       |                          |                          |             |                          |                          |                   |                          |                          |             |                          |                          |       |                          |                          |             |                          |                          |                |                          |                          |                   |                          |                          |       |                          |                          |                |                          |                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |                                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |
| Yellow Floating Heart   | <input type="checkbox"/> | <input type="checkbox"/> | Japanese Knotweed               | <input type="checkbox"/> | <input type="checkbox"/> | Cornmeal Buckthorn              | <input type="checkbox"/> | <input type="checkbox"/> | Himalayan Blackberry | <input type="checkbox"/> | <input type="checkbox"/> |                                 |  |  |                                 |  |  |                                 |  |  |      |  |  |                       |                          |                          |                    |                          |                          |               |                          |                          |       |                          |                          |                |                          |                          |          |                          |                          |                 |                          |                          |            |                          |                          |                       |                          |                          |                   |                          |                          |                    |                          |                          |                      |                          |                          |               |                          |                          |                       |                          |                          |                  |                          |                          |              |                          |                          |                |                          |                          |            |                          |                          |               |                          |                          |             |                          |                          |                    |                          |                          |                   |                          |                          |       |                          |                          |             |                          |                          |                   |                          |                          |             |                          |                          |       |                          |                          |             |                          |                          |                |                          |                          |                   |                          |                          |       |                          |                          |                |                          |                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |                                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |
| Giant Sambava   | <input type="checkbox"/> | <input type="checkbox"/> | Pereennial Pepperweed           | <input type="checkbox"/> | <input type="checkbox"/> | Common Buckthorn                | <input type="checkbox"/> | <input type="checkbox"/> | Chesnutgrass         | <input type="checkbox"/> | <input type="checkbox"/> |                                 |  |  |                                 |  |  |                                 |  |  |      |  |  |                       |                          |                          |                    |                          |                          |               |                          |                          |       |                          |                          |                |                          |                          |          |                          |                          |                 |                          |                          |            |                          |                          |                       |                          |                          |                   |                          |                          |                    |                          |                          |                      |                          |                          |               |                          |                          |                       |                          |                          |                  |                          |                          |              |                          |                          |                |                          |                          |            |                          |                          |               |                          |                          |             |                          |                          |                    |                          |                          |                   |                          |                          |       |                          |                          |             |                          |                          |                   |                          |                          |             |                          |                          |       |                          |                          |             |                          |                          |                |                          |                          |                   |                          |                          |       |                          |                          |                |                          |                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |                                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |
| Poison Hemlock  | <input type="checkbox"/> | <input type="checkbox"/> | Giant Reed                      | <input type="checkbox"/> | <input type="checkbox"/> | Lambsquarters                   | <input type="checkbox"/> | <input type="checkbox"/> | Rabbitbrush          | <input type="checkbox"/> | <input type="checkbox"/> |                                 |  |  |                                 |  |  |                                 |  |  |      |  |  |                       |                          |                          |                    |                          |                          |               |                          |                          |       |                          |                          |                |                          |                          |          |                          |                          |                 |                          |                          |            |                          |                          |                       |                          |                          |                   |                          |                          |                    |                          |                          |                      |                          |                          |               |                          |                          |                       |                          |                          |                  |                          |                          |              |                          |                          |                |                          |                          |            |                          |                          |               |                          |                          |             |                          |                          |                    |                          |                          |                   |                          |                          |       |                          |                          |             |                          |                          |                   |                          |                          |             |                          |                          |       |                          |                          |             |                          |                          |                |                          |                          |                   |                          |                          |       |                          |                          |                |                          |                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |                                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |
| Mile-A-Minute Weed  | <input type="checkbox"/> | <input type="checkbox"/> | Reed Canary Grass               | <input type="checkbox"/> | <input type="checkbox"/> | Other                           | <input type="checkbox"/> | <input type="checkbox"/> | Common Reed          | <input type="checkbox"/> | <input type="checkbox"/> |                                 |  |  |                                 |  |  |                                 |  |  |      |  |  |                       |                          |                          |                    |                          |                          |               |                          |                          |       |                          |                          |                |                          |                          |          |                          |                          |                 |                          |                          |            |                          |                          |                       |                          |                          |                   |                          |                          |                    |                          |                          |                      |                          |                          |               |                          |                          |                       |                          |                          |                  |                          |                          |              |                          |                          |                |                          |                          |            |                          |                          |               |                          |                          |             |                          |                          |                    |                          |                          |                   |                          |                          |       |                          |                          |             |                          |                          |                   |                          |                          |             |                          |                          |       |                          |                          |             |                          |                          |                |                          |                          |                   |                          |                          |       |                          |                          |                |                          |                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |                                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |
| Birdsfoot Trefoil   | <input type="checkbox"/> | <input type="checkbox"/> | Common Reed                     | <input type="checkbox"/> | <input type="checkbox"/> | Other                           | <input type="checkbox"/> | <input type="checkbox"/> | Leary Sedge          | <input type="checkbox"/> | <input type="checkbox"/> |                                 |  |  |                                 |  |  |                                 |  |  |      |  |  |                       |                          |                          |                    |                          |                          |               |                          |                          |       |                          |                          |                |                          |                          |          |                          |                          |                 |                          |                          |            |                          |                          |                       |                          |                          |                   |                          |                          |                    |                          |                          |                      |                          |                          |               |                          |                          |                       |                          |                          |                  |                          |                          |              |                          |                          |                |                          |                          |            |                          |                          |               |                          |                          |             |                          |                          |                    |                          |                          |                   |                          |                          |       |                          |                          |             |                          |                          |                   |                          |                          |             |                          |                          |       |                          |                          |             |                          |                          |                |                          |                          |                   |                          |                          |       |                          |                          |                |                          |                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |                                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |
| Canada Thistle  | <input type="checkbox"/> | <input type="checkbox"/> | Reed Canary Grass               | <input type="checkbox"/> | <input type="checkbox"/> | Other                           | <input type="checkbox"/> | <input type="checkbox"/> | Canada Thistle       | <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 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 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.  |                          |                          |                                 |                          |                          |                                 |                          |                          |                      |                          |                          |                                 |  |  |                                 |  |  |                                 |  |  |      |  |  |                       |                          |                          |                    |                          |                          |               |                          |                          |       |                          |                          |                |                          |                          |          |                          |                          |                 |                          |                          |            |                          |                          |                       |                          |                          |                   |                          |                          |                    |                          |                          |                      |                          |                          |               |                          |                          |                       |                          |                          |                  |                          |                          |              |                          |                          |                |                          |                          |            |                          |                          |               |                          |                          |             |                          |                          |                    |                          |                          |                   |                          |                          |       |                          |                          |             |                          |                          |                   |                          |                          |             |                          |                          |       |                          |                          |             |                          |                          |                |                          |                          |                   |                          |                          |       |                          |                          |                |                          |                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |                                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |
| 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):   |                          |                          |                                 |                          |                          |                                 |                          |                          |                      |                          |                          |                                 |  |  |                                 |  |  |                                 |  |  |      |  |  |                       |                          |                          |                    |                          |                          |               |                          |                          |       |                          |                          |                |                          |                          |          |                          |                          |                 |                          |                          |            |                          |                          |                       |                          |                          |                   |                          |                          |                    |                          |                          |                      |                          |                          |               |                          |                          |                       |                          |                          |                  |                          |                          |              |                          |                          |                |                          |                          |            |                          |                          |               |                          |                          |             |                          |                          |                    |                          |                          |                   |                          |                          |       |                          |                          |             |                          |                          |                   |                          |                          |             |                          |                          |       |                          |                          |             |                          |                          |                |                          |                          |                   |                          |                          |       |                          |                          |                |                          |                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |                                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |
| Latitude North 4 1 - 3 1 7 7 7 Longitude West 0 8 1 5 9 1 2 2 Use Decimal Degrees, NAD83  |                          |                          |                                 |                          |                          |                                 |                          |                          |                      |                          |                          |                                 |  |  |                                 |  |  |                                 |  |  |      |  |  |                       |                          |                          |                    |                          |                          |               |                          |                          |       |                          |                          |                |                          |                          |          |                          |                          |                 |                          |                          |            |                          |                          |                       |                          |                          |                   |                          |                          |                    |                          |                          |                      |                          |                          |               |                          |                          |                       |                          |                          |                  |                          |                          |              |                          |                          |                |                          |                          |            |                          |                          |               |                          |                          |             |                          |                          |                    |                          |                          |                   |                          |                          |       |                          |                          |             |                          |                          |                   |                          |                          |             |                          |                          |       |                          |                          |             |                          |                          |                |                          |                          |                   |                          |                          |       |                          |                          |                |                          |                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |                                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |
| Flag  |                          |                          |                                 |                          |                          |                                 |                          |                          |                      |                          |                          |                                 |  |  |                                 |  |  |                                 |  |  |      |  |  |                       |                          |                          |                    |                          |                          |               |                          |                          |       |                          |                          |                |                          |                          |          |                          |                          |                 |                          |                          |            |                          |                          |                       |                          |                          |                   |                          |                          |                    |                          |                          |                      |                          |                          |               |                          |                          |                       |                          |                          |                  |                          |                          |              |                          |                          |                |                          |                          |            |                          |                          |               |                          |                          |             |                          |                          |                    |                          |                          |                   |                          |                          |       |                          |                          |             |                          |                          |                   |                          |                          |             |                          |                          |       |                          |                          |             |                          |                          |                |                          |                          |                   |                          |                          |       |                          |                          |                |                          |                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |                                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |
| Comments  |                          |                          |                                 |                          |                          |                                 |                          |                          |                      |                          |                          |                                 |  |  |                                 |  |  |                                 |  |  |      |  |  |                       |                          |                          |                    |                          |                          |               |                          |                          |       |                          |                          |                |                          |                          |          |                          |                          |                 |                          |                          |            |                          |                          |                       |                          |                          |                   |                          |                          |                    |                          |                          |                      |                          |                          |               |                          |                          |                       |                          |                          |                  |                          |                          |              |                          |                          |                |                          |                          |            |                          |                          |               |                          |                          |             |                          |                          |                    |                          |                          |                   |                          |                          |       |                          |                          |             |                          |                          |                   |                          |                          |             |                          |                          |       |                          |                          |             |                          |                          |                |                          |                          |                   |                          |                          |       |                          |                          |                |                          |                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |                                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |
| AA CENTER O N3 O S3 E3 W3 O Nearest practicable location (flag and comment below)   |                          |                          |                                 |                          |                          |                                 |                          |                          |                      |                          |                          |                                 |  |  |                                 |  |  |                                 |  |  |      |  |  |                       |                          |                          |                    |                          |                          |               |                          |                          |       |                          |                          |                |                          |                          |          |                          |                          |                 |                          |                          |            |                          |                          |                       |                          |                          |                   |                          |                          |                    |                          |                          |                      |                          |                          |               |                          |                          |                       |                          |                          |                  |                          |                          |              |                          |                          |                |                          |                          |            |                          |                          |               |                          |                          |             |                          |                          |                    |                          |                          |                   |                          |                          |       |                          |                          |             |                          |                          |                   |                          |                          |             |                          |                          |       |                          |                          |             |                          |                          |                |                          |                          |                   |                          |                          |       |                          |                          |                |                          |                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |                                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |

# CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet



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|   |               |                 |           |         |     |           |         |  |  |     |      |  |  |  |        |  |  |  |
|---|---------------|-----------------|-----------|---------|-----|-----------|---------|--|--|-----|------|--|--|--|--------|--|--|--|
| <b>GENERAL INFORMATION</b>  |               | <b>LOCATION</b> |           |         |     |           |         |  |  |     |      |  |  |  |        |  |  |  |
| <u>Project Label:</u>   | PCAP          |                 |           |         |     |           |         |  |  |     |      |  |  |  |        |  |  |  |
| <u>Project Name:</u>  |               |                 |           |         |     |           |         |  |  |     |      |  |  |  |        |  |  |  |
| <u>Plot Name:</u>   |               |                 |           |         |     |           |         |  |  |     |      |  |  |  |        |  |  |  |
| <u>Plot No.:</u>  | 1173          |                 |           |         |     |           |         |  |  |     |      |  |  |  |        |  |  |  |
| <input type="checkbox"/> Level 4 (no nested corners sampled)<br><input checked="" type="checkbox"/> Level 5 (nested corners sampled)  |               |                 |           |         |     |           |         |  |  |     |      |  |  |  |        |  |  |  |
| <u>Date (mm/dd/yyyy):</u>   | / /           |                 |           |         |     |           |         |  |  |     |      |  |  |  |        |  |  |  |
| <u>End date (if &gt; 1 day):</u>  | / /           |                 |           |         |     |           |         |  |  |     |      |  |  |  |        |  |  |  |
| <u>Party</u>  | <u>Role**</u> |                 |           |         |     |           |         |  |  |     |      |  |  |  |        |  |  |  |
|   | Plot leader   |                 |           |         |     |           |         |  |  |     |      |  |  |  |        |  |  |  |
| <small>** Roles: Co-leader, Asst. Guide, Owner, Taxonomist, etc.</small>  |               |                 |           |         |     |           |         |  |  |     |      |  |  |  |        |  |  |  |
| <b>PLOT NOT SAMPLED:</b><br><input type="checkbox"/> Perm. water <input type="checkbox"/> Paved <input type="checkbox"/> Slope <input type="checkbox"/> Safety  |               |                 |           |         |     |           |         |  |  |     |      |  |  |  |        |  |  |  |
| <b>SAMPLING QUALITY*</b><br><b>Effort Level:</b><br><input type="checkbox"/> Very thorough<br><input type="checkbox"/> Accurate<br><input type="checkbox"/> Hurried<br><small>data</small>  |               |                 |           |         |     |           |         |  |  |     |      |  |  |  |        |  |  |  |
| <b>TAXONOMIC ACCURACY</b><br><table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>high</td> <td>modera.</td> <td>low</td> <td>not samp!</td> </tr> <tr> <td>vascul.</td> <td></td> <td></td> <td>n/a</td> </tr> <tr> <td>bryo</td> <td></td> <td></td> <td></td> </tr> <tr> <td>lichen</td> <td></td> <td></td> <td></td> </tr> </table>   |               |                 | high      | modera. | low | not samp! | vascul. |  |  | n/a | bryo |  |  |  | lichen |  |  |  |
| high  | modera.       | low             | not samp! |         |     |           |         |  |  |     |      |  |  |  |        |  |  |  |
| vascul.   |               |                 | n/a       |         |     |           |         |  |  |     |      |  |  |  |        |  |  |  |
| bryo  |               |                 |           |         |     |           |         |  |  |     |      |  |  |  |        |  |  |  |
| lichen  |               |                 |           |         |     |           |         |  |  |     |      |  |  |  |        |  |  |  |
| <b>DATA</b><br><u>Plot size for cover data:</u> <input checked="" type="radio"/> 0.08 (hectares)<br><input type="checkbox"/> Stems not sampled on this plot <input type="checkbox"/> Stems absent<br><input type="checkbox"/> Stems present <u>Plot size stems:</u> <input checked="" type="radio"/> 0.08 (ha)<br><b>Depth:</b> (1-5):<br><b>Intensive modules:</b> <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 (EDIT IF MODIFIED)<br><b>Camera No.:</b> _____<br><b>Photo Nos.:</b> _____ |               |                 |           |         |     |           |         |  |  |     |      |  |  |  |        |  |  |  |
| <u>Plot Name:</u> 1173A<br><u>Pub Date:</u> 1998<br><small>Minimum required fields in Bold and Underlined</small>   |               |                 |           |         |     |           |         |  |  |     |      |  |  |  |        |  |  |  |

\*Definitions and values in CMPCAP FOM v. 1.0 and CVS Field Guide

**OVER**

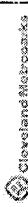
**CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet**

 Project Label: PCAP

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

Plot No.: \_\_\_\_\_

Page 2 of 2


**CLASSIFICATION**

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

**Hydrogeomorphic class (WETLANDS ONLY):**

- DEPRESSION
- IMPOUNDMENT  Beaver  Human
- RIVERINE  Headwater  Mainstem  Channel
- SLOPE (ground water hydrology or on a physical slope)
- FRINGING  Reservoir  Natural Lake
- COASTAL (specify subclass)
- BOG (strongly, moderately, weekly ombrotrophic)

**Ohio EPA VTB Plant Community Class (WETLANDS ONLY):**

- FOREST  swamp forest  bog forest  forest seep
- EMERGENT  marsh  wet meadow  open bog
- SHRUB  shrub swamp  tall sh. bog  tall sh. fen

**MODIFIED NATURESERVE CLASS:**

CODE (on separate form):

COMMUNITY NAME:

**LANDFORM TYPE\*:**
**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

**DRAINAGE\***

- Excessively drained
- Somewhat excessively drained
- Well drained
- Moderately well dr.
- Somewhat poorly dr.
- Very poorly dr.
- Impermeable surface

**SALINITY\***

- Saltwater
- Brackish
- Fresh
- Upland (n/a)

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

- Human
  - Natural
  - Fire
  - Cut
  - Animal
  - Other
- \*\* L=low, ML=med low, M=med, MH=med high, H=high, VH=very high

DISTURBANCES

type\*

severity\*\*

yrs ago

% of plot

description

Peter in Chippewa Valley Dr. in his closest to Amherst

