

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

 Cleveland Metroparks

Project Label:

PCAP

Plot No: 1300

Date Sampled: 9-28-11 Lead: Eysenbach

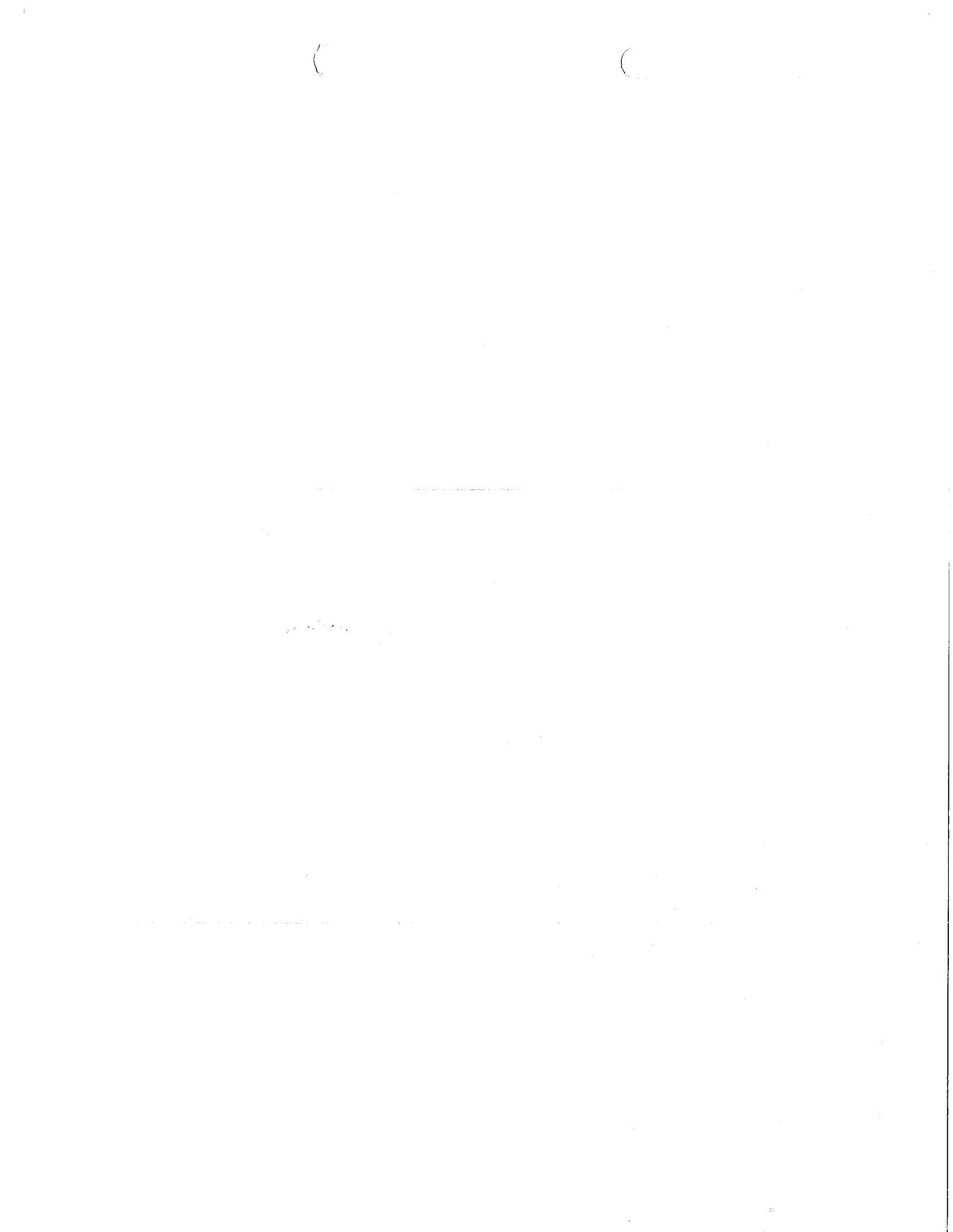
Comment required if item answer is NO

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?		Enter date to left 9-30-11	
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 (#)	<input checked="" type="radio"/> Y <input type="radio"/> N	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. parking lot, 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

EMN Page

Page 1 of 2

<b>GENERAL INFORMATION</b>		<b>LOCATION</b>
Project Label:	PCAP	
Project Name:	018K2011	
Plot Name:	EMN (11)	
Plot No.:	1800	
<input type="checkbox"/> Level 4 (no nested corners sampled) <input checked="" type="checkbox"/> Level 5 (nested corners sampled)		
Date (mm/dd/yyyy):	9/28/2011	
End date (if > 1 day):	/ /	
Party	Role **	
S. Eikenbach	Plot leader	
L. Haysman	Self Weekly	
T. Robison		
** Roles: Co-leader, Asst. Guide, Owner, Taxonomist, etc.		
<b>PLOT NOT SAMPLED:</b>		
<input type="checkbox"/> Other <input type="checkbox"/> Perm. water <input type="checkbox"/> Paved <input type="checkbox"/> Slope <input type="checkbox"/> Safety		
<b>SAMPLING QUALITY*</b>		
subjective evaluation of how much effort put into sampling. Hurried plots may still provide good data		
<b>Effort Level:</b> <input checked="" type="checkbox"/> Very thorough <input type="checkbox"/> Accurate <input type="checkbox"/> Hurried		
<b>TAXONOMIC ACCURACY</b>		
high	modera.	low
<input checked="" type="checkbox"/>		<input type="checkbox"/>
vascul.		n/a
bryo		<input checked="" type="checkbox"/>
lichen		<input checked="" type="checkbox"/>
<b>TAXONOMIC STANDARD</b>		
Authority:	G&C	Pub Date: 1998

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

Minimum required fields in Bold and Underlined

Old Road

GRSP pt

Diagram:  Plot origin (0,0) point     GPS location (0,0) point     with direction     location of permanent posts

Reason:  
If data not public why?

Source of coordinates  MAP  GPS

GPS location in plot x=0 to 5, y=-1,0,+1):  
x =  y =  (base of plot x=0, y=0)

Coordinate system:  Lat/Long  UTM  StatePlane  deg  deg min  
 m  ft

Datum:  NAD83/WGS84  NAD27

Latitude: 41.44497

Longitude: 81.41295

Coord. Accuracy:  m  ft    +.2.2

GPS File Name: 1200A

Plot size for cover data: 0.1 (hectares)

Stems not sampled on this plot  Stems absent

Stems present Plot size stems: 0.1 (ha)

Depth: (1-5): 4

Intensive modules: 2, 3, 8, 9 (EDIT IF MODIFIED)

Camera No.: 2

Photo Nos.: 1112-1193

Rationale: GRTS pot fell on slope above old road. Original GRTS pt fell at (21). We wanted to keep the plot on the slope

Veg Char: Beach Red Oak dominated

Midstory: Witch Hazel, Serviceberry, Maple-leaf Viburnum

Understory: Diversis Seeds moss Natural Resources Management FORM NR/2010-01a

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

Project Label: PCAP

Project Name: 015K2D1

Plot No.: 1200

Page 2 of 2

Plots in Cleveland Metroparks

**CLASSIFICATION**

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

- | STAND SIZE |       | DISTURBANCES       |            |         |                           |
|------------|-------|--------------------|------------|---------|---------------------------|
|            |       | Type*              | severity** | yrs ago | % of plot                 |
| Fit=       | Conf= | Human              | H          | 50      | 100 trash, deposited soil |
| Fit=       | Conf= | Natural            |            |         |                           |
| Fit=       | Conf= | Fire               |            |         |                           |
| Fit=       | Conf= | 10-100 x plot size |            |         |                           |
| Fit=       | Conf= | 3-10 x plot size   |            |         |                           |
| Fit=       | Conf= | 1-3 x plot size    |            |         |                           |
| Fit=       | Conf= | < plot size        |            |         |                           |
| Fit=       | Conf= | Other              |            |         |                           |

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

Current Land Use: Zoo/Park

Former Land Use: Zoo/Park

**HYDROLOGIC REGIME\***

- | SALINITY* |       | HYDROLOGIC REGIME*      |                                       |                              |   |
|-----------|-------|-------------------------|---------------------------------------|------------------------------|---|
| Fit=      | Conf= | Upland (seldom flooded) | Upland (seldom flooded)               | Intermittently flooded       | Intermittently flooded                              |
| Fit=      | Conf= | Saltwater               | Brackish                              | Semipermanently flooded      | Semipermanently flooded                             |
| Fit=      | Conf= | Fresh                   | Upland (n/a)                          | Permanently flooded          | Permanently flooded                                 |
| Fit=      | Conf= |                         | (by default unless plot is a wetland) | Tidal/Searche flooded daily  | Tidal/Searche flooded monthly                       |
| Fit=      | Conf= |                         |                                       | Occasionally flooded (<1/yr) | Tidal/Searche flooded irregular (e.g. wind, storms) |
| Fit=      | Conf= |                         |                                       | Temporarily flooded          |   |
| Fit=      | Conf= |                         |                                       | Unknown                      |   |

**ADDITIONAL NOTES & DIAGRAMS:** (Representativeness of plot to the stand, successional status, maturity, etc.)

Plot was located on a deposited soil mound that has developed into a ~~soil~~ Beech, and Red Oak upland. ~~The~~ The residual mounds 4-5, 6-7 have much less Beech and more Red Maple and Sugar Maple. ~~There~~ There are several large American hazel with seedlings throughout the area. Browse is very low and probably not from deer. This area acts like an deer enclosure with animal pens surrounding the base of the mound. Lots of Maple Lest Viburnum and Witch Hazel in the shrub layer. Not much ~~or~~ under story - lots of ~~seedlings~~ Quercus seedlings and moss. Also lots of Sedges or several holes in the ground near the ~~lens~~ at the top of the ridge (Skunk). Interesting area!

**HOMOGENEITY**

Homogeneous

- Compositional trend across the plot
- Conspicuous inclusions
- Irregular/pattern mosaic

CODE (on separate form): C04

COMMUNITY NAME: Beech- Red Oak Forest

CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet

Page L of 2

Project Label: PCAP Plot no.: 1200

Project name: LIBK2011 Plot area (ha): 0.1

Total modules: 4 Plot configuration: 2x5

Visual est. % open water entire site: 0

Visual est. %unveg. o.w. entire site: 0

Visual est. %invasives entire site: 1



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

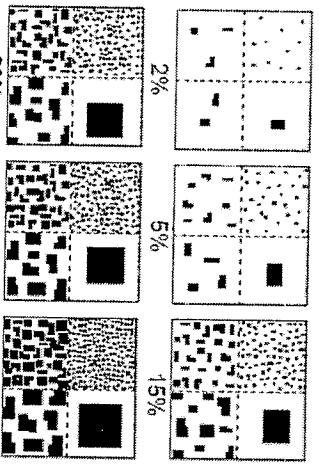
%unvegetated open water

%unveg. litter (bare litter)

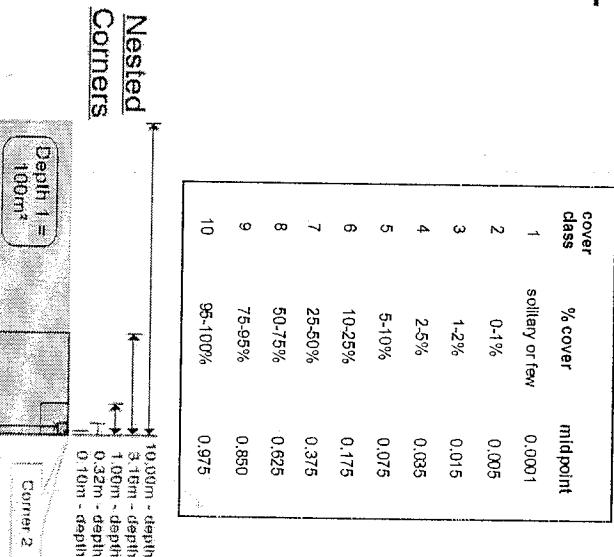
Strata - Cov. entire plot	T	S	H	(F)	(A)	<b>Br</b>	Species	Estimate for each intensive module:																				
								mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	
								depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth
	8	5	2	4	7	T	<i>Taxus grandifolia</i>	2	4	2	3	4	3	2	3	4	2	3	2	3	2	3	2	3	R	R		
	7					Q	<i>Quercus rubra</i>	1	D		1	0	0	1	0	0	1	0	0	1	0	0	1	0				
	6	2				V	<i>Viburnum acerifolium</i>	1	7		1	0	0	1	1	1	1	5		1	2							
	5					Q	<i>Quercus alba</i>	1	5		1	0	0	1	1	1	1	6		1	8							
	3	4	2			A	<i>Amschanchier sp.</i>	2	7	3	4	6	2	7	3	4	6	2	7	3	2	7	2	2				
	6					M	<i>Moss sp</i>	4	5		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	4					Q	<i>Quercus seedling</i>	4	5	4	4	2	2	2	3	4	2	3	4	1	3							
	2					A	<i>Acer seedling</i>	2	2	3	-	1	1	2	2	2	3	3	3	4	2	1						
	2					S	<i>Solidago caesia</i>	2	2	4	-	1	1	-	-	-	2	2	1	1	1	1						
	6	2				H	<i>Hamamelis virginiana</i>	1	3		1	4		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	6	2				E	<i>Eriogonum virginica</i>	1	3		1	4		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	5	2	2			P	<i>Prunus serotina</i>	2	1		1	4		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	6	5	2			R	<i>Rhus rubrum</i>	1	3		1	5	-1	4		2	3	4	-	1	2							
	2					A	<i>Aesculus x carnea</i>	2	4	3	4	5	2	5	2	5	2	5	2	5	2	5	2	5	2	5		
	1					L	<i>Liquidambar tulipifera</i>	3	1		1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2		
	5	2	1			U	<i>Unknown woody</i>	1	3		2	1	2	1	2	1	3	2	1	1	1	1	1	1	1	1		
	1					A	<i>Acer saccharinum</i>	2	6		1	1		1	1	1	1	1	1	1	1	1	1	1	1	1		
	1					T	<i>Toxicodendron radicans</i>	1	1		1	1		1	1	1	1	1	1	1	1	1	1	1	1	1		
	1					C	<i>Celastrus (Dove)</i>	1	1		1	1		1	1	1	1	1	1	1	1	1	1	1	1	1		
	1					P	<i>Parthenocissus quinquefolia</i>	1	1		1	1		1	1	1	1	1	1	1	1	1	1	1	1	1		
	1					D	<i>Danthronca</i> sp.	1	1		1	1		1	1	1	1	1	1	1	1	1	1	1	1	1		
	1					C	<i>Cornus canadensis</i>	2	1		1	1		1	1	1	1	1	1	1	1	1	1	1	1	1		
	2					S	<i>Smilax rotundifolia</i>	1	1		1	1		1	1	1	1	1	1	1	1	1	1	1	1	1		
	1					R	<i>Rubus hispida</i>	1	1		1	1		1	1	1	1	1	1	1	1	1	1	1	1	1		

#### EXAMPLES OF PERCENT OF AREA COVERED

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



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



#### **BROWSE RATING NARRATIVE DESCRIPTION**

**LOW OR NONE:** there is no measurable browse line AND there are very few or no plants 1-m nested quadрат and intensive module.

In general, low values relate to less than 10 percent, by numbers of stems browsed.

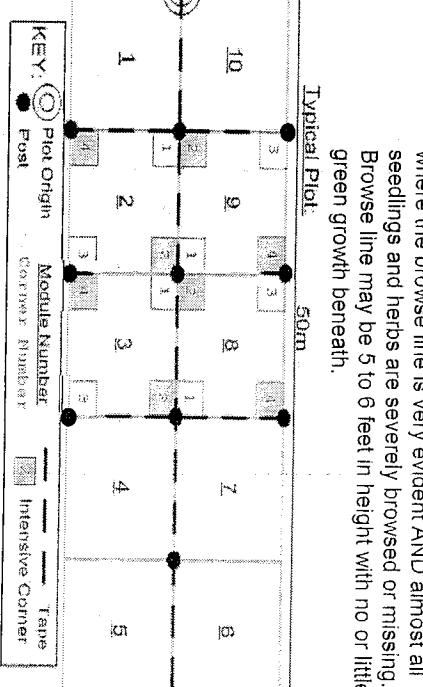
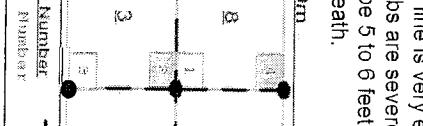
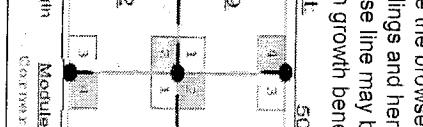
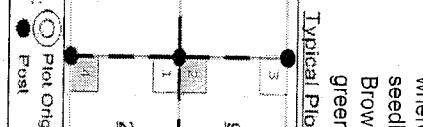
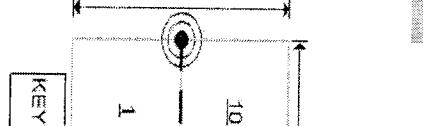
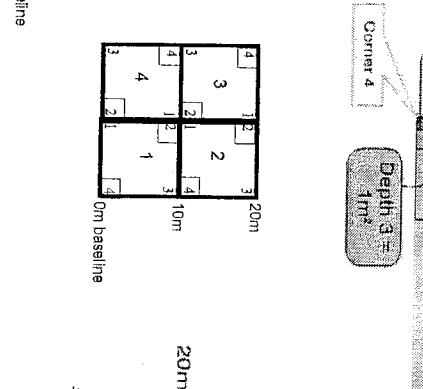
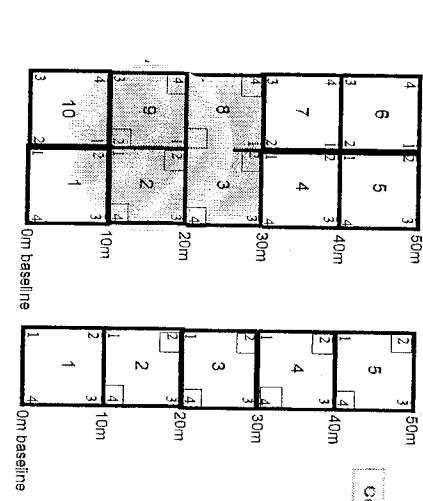
**MEDIUM LOW** values include evidence of browse at about 10 percent of the stems with no significant impact to plant reproduction evident. In this rating, plants are browsed but preferential species are observed to be reproducing in numbers that appear normal or near-normal in comparison to low browse 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 quadрат 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 quadрат 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 Species Cover Data Sheet**

Page 2 of 2

Project Label: PCAP Project name: OIBK 2011 Plot no.: 1202 Plot area (ha): 0.1

Total modules: 10 Intensive modules: 4 Plot configuration: 2x5

Visual est. % open water entire site: \_\_\_\_\_ Visual est. %unveg.o.w. entire site: \_\_\_\_\_ Visual est. %invasives entire site: \_\_\_\_\_



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Metroparks**

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

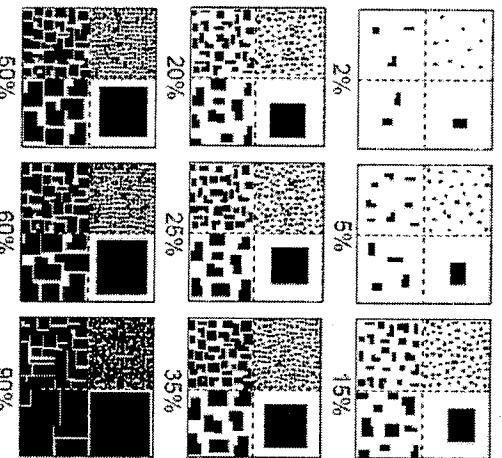
entire plot

Strata - Cov. entire plot

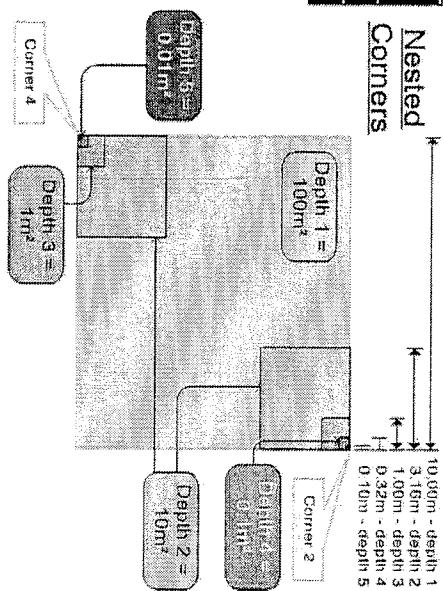
T	S	H	(F)	(A)	Br	Species	C	Voucher #	mod	corner															
2	2	4	2	2	3	<i>Ostrya virginiana</i>			2	4	2	3	4	2	8	4	2	4	19	2	R	R			
3	2	1				<i>Corylus glabra</i>			1		1		1		1		1		1						
						<i>Prunus vulgaris</i>																			

#### EXAMPLES OF PERCENT OF AREA COVERED

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



#### Nested Corners



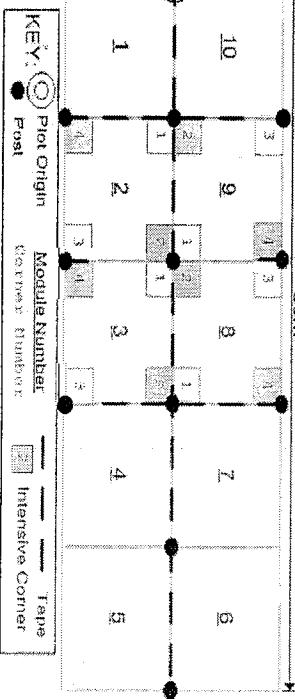
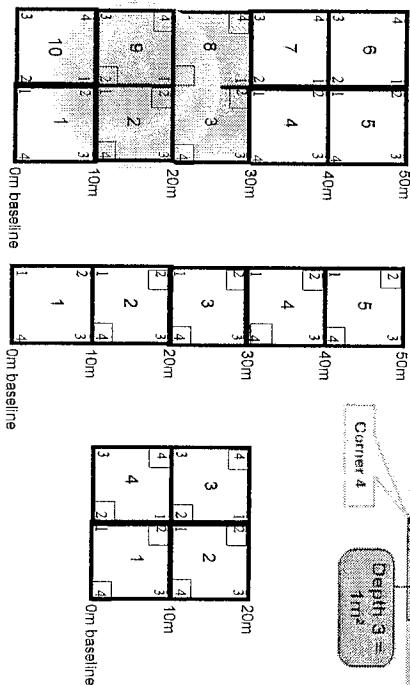
#### MEDIUM

**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 or 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 preferred 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.



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

Project Label: PCAP

Project Name: CKDC14

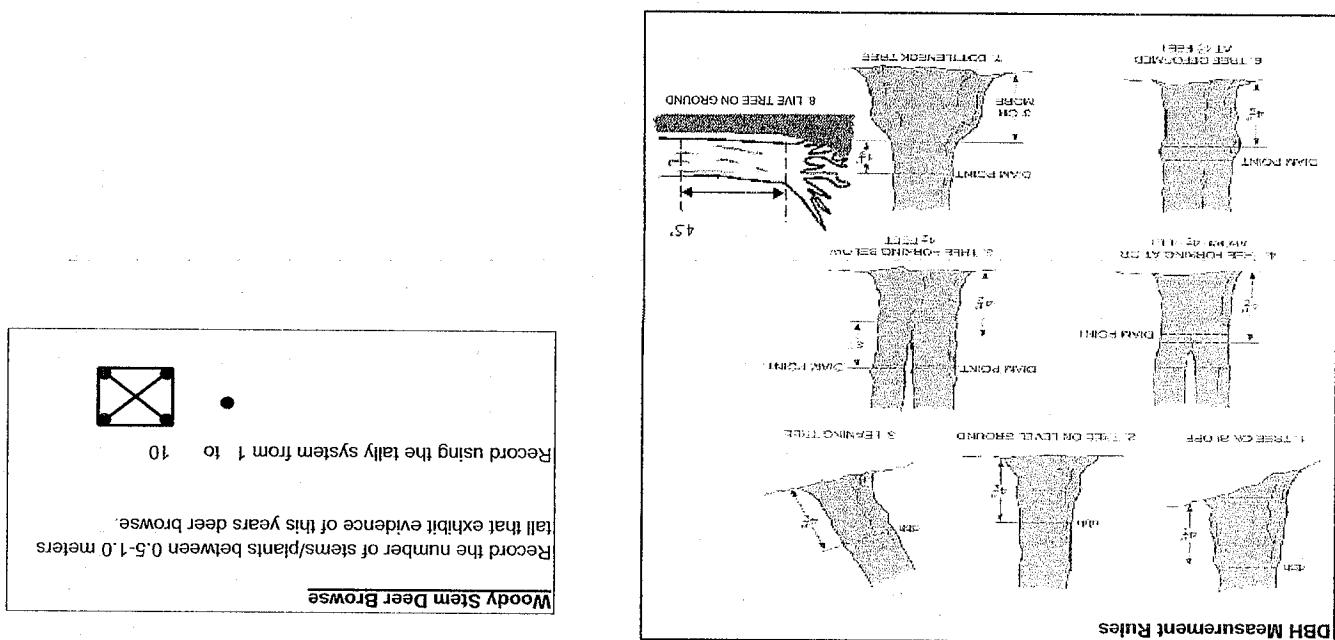
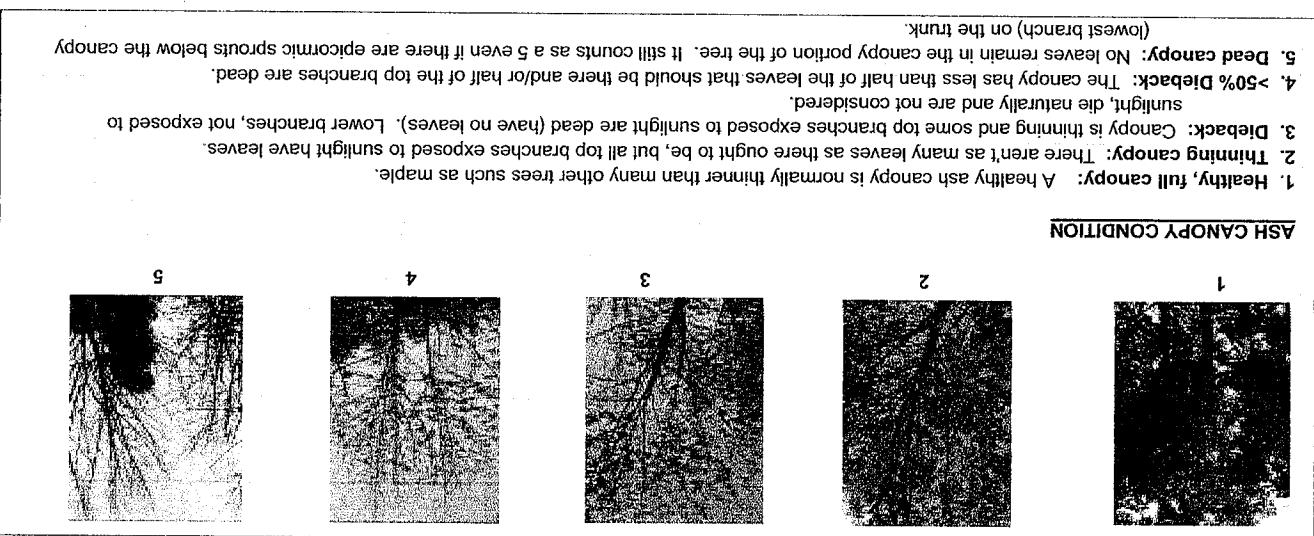
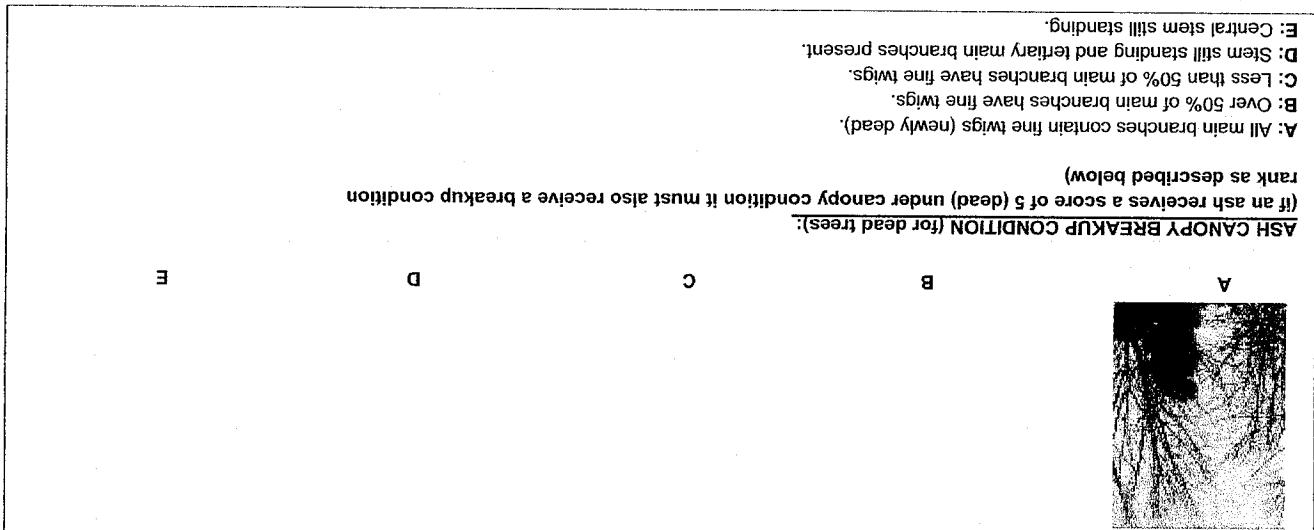
Plot No.: 1200

Page: 1 of 3

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Explain subsample (additional room on back):

mod #	species	c	voucher#	# stems 0.5-1m browsed	% sub sample	# shrub clumps	size class (cm) woody stems >1m										11 >40 (record each tree)
							1 0-1	2 1-2.5	3 2.5-5	4 5-10	5 10-15	6 15-20	7 20-25	8 25-30	9 30-35	10 35-40	
1	<i>Hamamelis virginiana</i>			1		•	•	•	•	•	•	•	•	•	•	•	66.7
1	<i>Amelesia</i> sp																
1	<i>Carya</i> sp																
1	<i>Prunus pensylvanica</i>																
1	<i>Vitis vulpina</i> or other				X	•	•	•	•	•	•	•	•	•	•	•	
2	<i>Tilia americana</i>					•	•	•	•	•	•	•	•	•	•	•	
2	<i>Hamamelis virginiana</i>					•	•	•	•	•	•	•	•	•	•	•	
2	<i>Staphylinus</i> Dead					•	•	•	•	•	•	•	•	•	•	•	
2	<i>Prunus pensylvanica</i>					•	•	•	•	•	•	•	•	•	•	•	
2	<i>Vitis vulpina</i> or other					•	•	•	•	•	•	•	•	•	•	•	
2	<i>Prunus pensylvanica</i>					•	•	•	•	•	•	•	•	•	•	•	
2	<i>Acer rubrum</i>					•	•	•	•	•	•	•	•	•	•	•	
2	<i>Prunus pensylvanica</i>					•	•	•	•	•	•	•	•	•	•	•	
3	<i>Prunus pensylvanica</i>																
3	<i>Acer rubrum</i>																
3	<i>Quercus rubra</i>																
3	<i>Vitis vulpina</i> or other																
3	<i>Acer saccharum</i>																
3	<i>Fagus grandifolia</i>																
4	<i>Pinus strobus</i>					•	•	•	•	•	•	•	•	•	•	•	
4	<i>Hamamelis virginiana</i>					•	•	•	•	•	•	•	•	•	•	•	
4	<i>Vitis vulpina</i> or other					•	•	•	•	•	•	•	•	•	•	•	
4	<i>Acer rubrum</i>																
4	<i>Quercus rubra</i>																



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

Project Label: PCAP

Project Name: C13K2U

Plot No.: 1200 Page: 2 of 3

Explain subsample (additional room on back):

mod #	species	c voucher#	# stems 0.5-in or super browsed	% sub sample clumps	# shrub 0<1	size class (cm) woody stems >1m										11 >40 (record each tree)
						1	2	3	4	5	6	7	8	9	10	
4	<i>Fagus grandifolia</i>				X	..	X			4						
5	<i>Ulmus americana</i>															
5	<i>Fagus grandifolia</i>															
5	<i>Quercus rubra</i>															
5	<i>Acer saccharum</i>															
5	<i>Acer rubrum</i>															
5	<i>Staphy. deald</i>															
5	<i>Hamelia virginica</i>															
6	<i>Quercus rubra</i>					..	..	..	..							
6	<i>Viburnum acerifolia</i>					L	..	..	..							
6	<i>Hamamelis virginica</i>															
6	<i>Corylus glabra</i>															
6	<i>Quercus alba</i>															
6	<i>Acer rubrum</i>															
6	<i>Quercus rubra</i>															
7	<i>Hamamelis virginica</i>															
7	<i>Staphy. deald</i>															
7	<i>Acer rubrum</i>															
7	<i>Quercus rubra</i>															
7	<i>Acer saccharum</i>															
7	<i>Quercus rubra</i>															
7	<i>Fagus grandifolia</i>															
8	<i>Acer rubrum</i>															
8	<i>Fagus grandifolia</i>															
8	<i>Staphy. deald</i>															

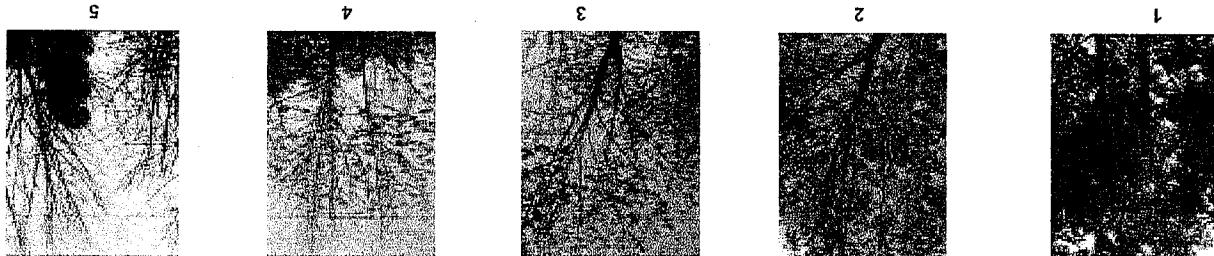
**ASH CANOPY BREAKUP CONDITION (for dead trees):**

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

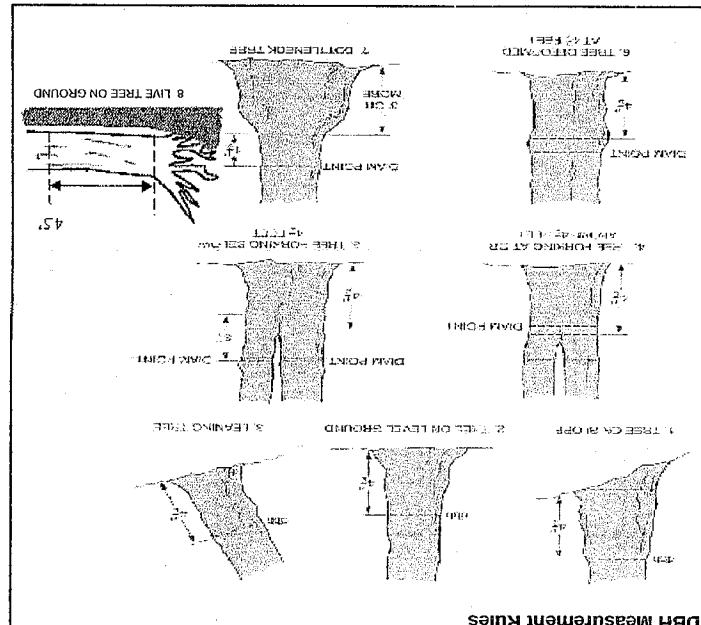
- A: All main branches contain fine twigs (newly dead).
- B: Over 50% of main branches have fine twigs.
- C: Less than 50% of main branches have fine twigs.
- D: Stem still standing and tertiary main branches present.
- E: Central stem still standing.



- ASH CANOPY CONDITION**
- 1. Healthy, full canopy: A healthy ash canopy is normally thinner than many other trees such as maple.
  - 2. Thinning canopy: Three 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. If still counts as a 5 even if there are epicormic sprouts below the canopy (lowest branch) on the trunk.



	•
Record using the tally system from 1 to 10	
Woodsy Stem Deer Browse	
Record the number of stems/plants between 0.5-1.0 meters tall that exhibit evidence of this years deer browse.	



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

 Project Label: PCAP

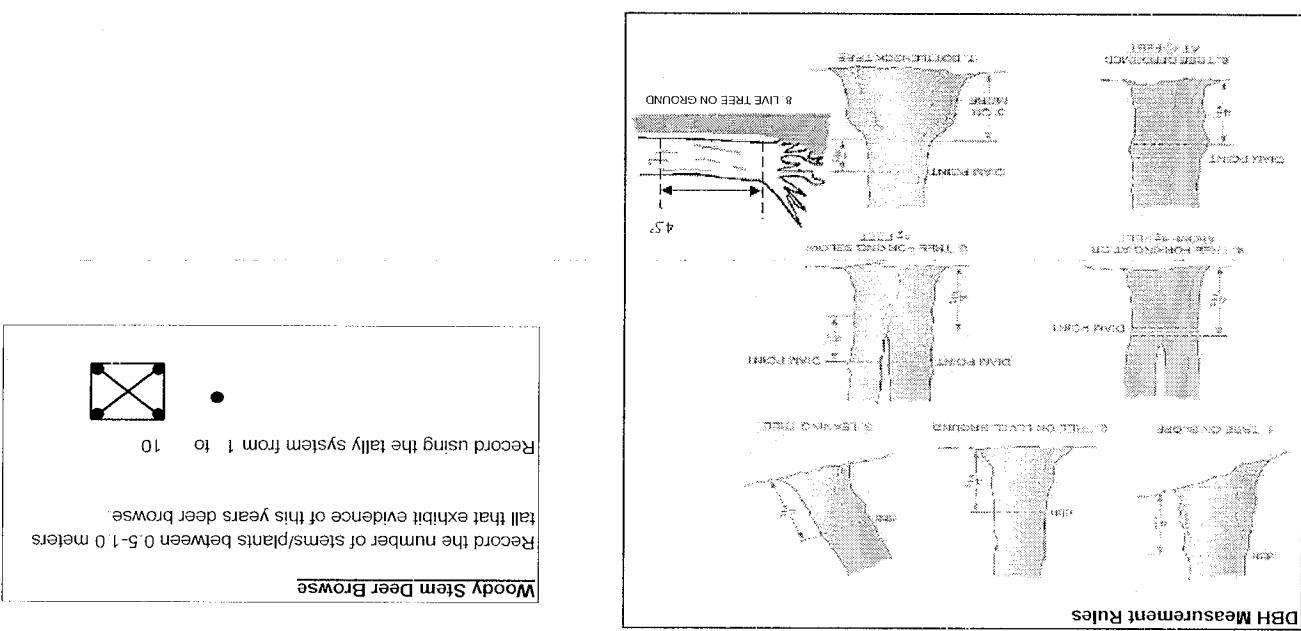
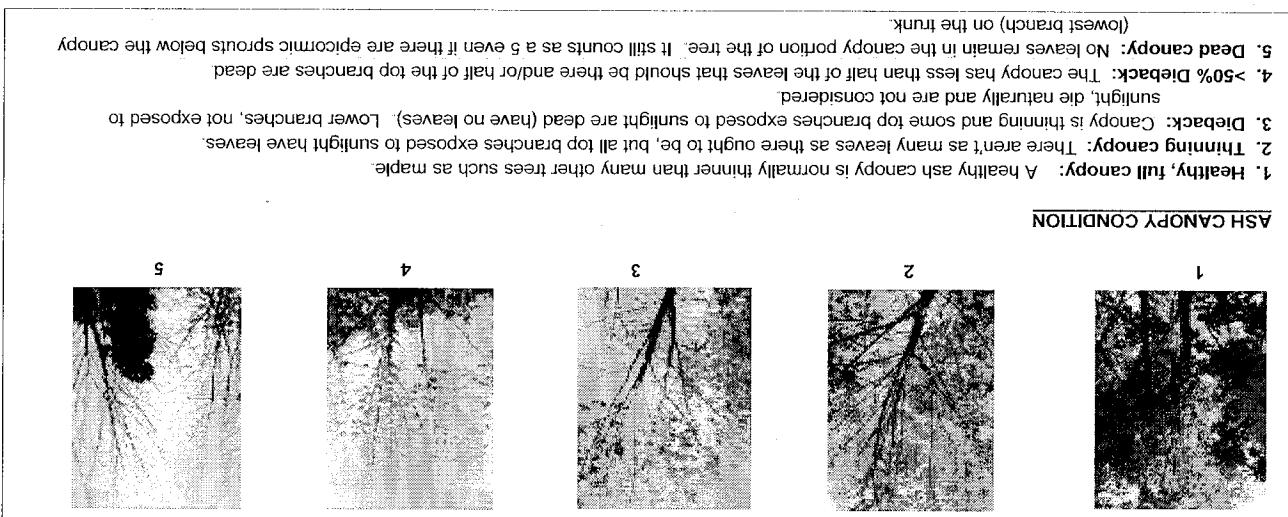
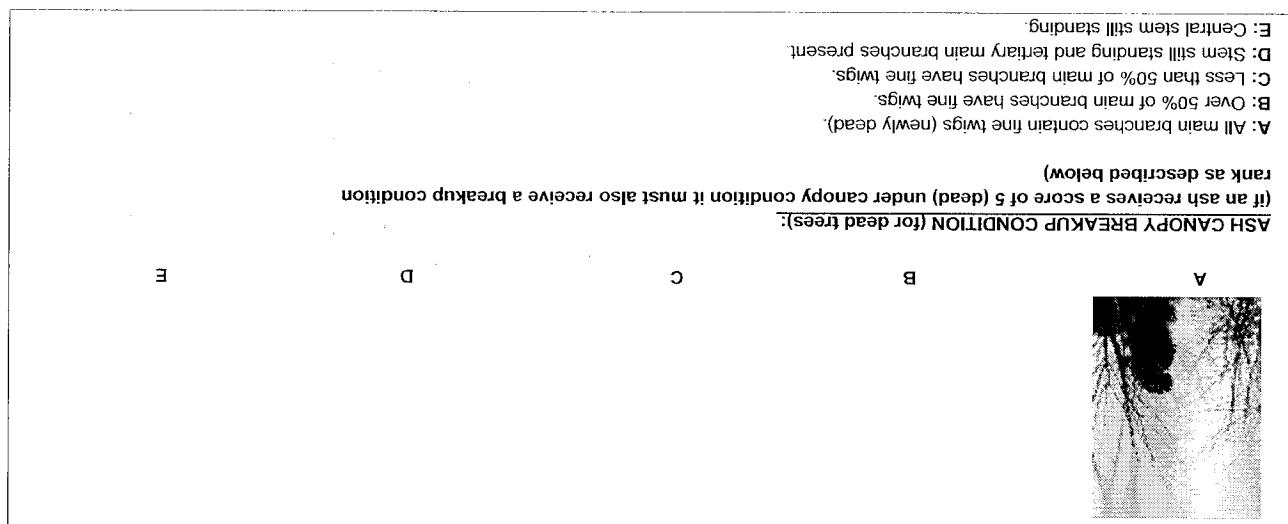
 Project Name: OIBK2011

 Plot No.: 420C

 Page: 3 of 3
*RECORDING REQUIREMENTS*

Explain subsample (additional room on back):

mod #	species	c voucher#	# stems 0.5-1m or super sample browsed	size class (cm) woody stems >1m										11 >40 (record each tree)
				# shrub clumps	1	2	3	4	5	6	7	8	9	
9	<i>Fagus grandifolia</i>			X	17	4	6	2	0	0	0	0	0	0
9	<i>Fraxinus nigra</i>				2	0	0	0	0	0	0	0	0	0
9	<i>Styrax obassia</i>				0	0	0	0	0	0	0	0	0	0
9	<i>Prunus pensylvanica</i>			60	0	0	0	0	0	0	0	0	0	0
9	<i>Quercus rubra</i>				0	0	0	0	0	0	0	0	0	0
9	<i>Viburnum acerifolium</i>				1	0	0	0	0	0	0	0	0	0
10	<i>Fagus grandifolia</i>				0	0	0	0	0	0	0	0	0	0
10	<i>Tilia americana</i>				2	0	0	0	0	0	0	0	0	0
10	<i>Tilia americana</i>				0	0	0	0	0	0	0	0	0	0
11	<i>Quercus rubra</i>				0	0	0	0	0	0	0	0	0	0
11	<i>Viburnum acerifolium</i>				0	0	0	0	0	0	0	0	0	0
11	<i>Hemisphæriæ virginica</i>				0	0	0	0	0	0	0	0	0	0
11	<i>Brunnus serrata</i>				0	0	0	0	0	0	0	0	0	0
11	<i>Acer rubrum</i>				0	0	0	0	0	0	0	0	0	0



CLEVELAND METROPARKS Emerald Ash Borer - *Fraxinus* Sheet  
 Project Label: PCAP Project Name: OBK201

INTENSIVE MODULES ONLY TREES ≥ 10CM ONLY  
 Plot No.: 1&2 Date: 9-28-11

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 Page: 1 of 2

ASH ONLY								
Tree Module ID	Species	Dead c	Voucher #	DBH (cm)	Ht @ DBH condition	Dead holes	Epicormic present	Woodpecker holes
1	✓ No Ash							
2	LN PLOT							
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

9

8

2

3

N

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 1.25m<sup>2</sup> x 21.5m

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

Presence	GPS	Tier 1: Early detection/Rapid response				# of Plants
		NE	SE	SW	NW	
X: Yes						

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

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

# of Plants	Tier 4: Widespread and abundant				# of Plants
	NE	SE	SW	NW	
X: Yes					

**CLEVELAND METROPARKS Plant Community Assessment Program - Plant Cover and Earth Surface**

Project Label: PCAP

Project Name: OBK2011

Plot No.: 120

Page: 1 of 1



COVER BY STRATA (% estimate using midpoints of ext 3 & 13. (18%)		
Strata	Height Range	Total Cover (%)
S - 2.5	0-1m	93
S - 5	1-2m	28
O - .5	.5-1m	13
(Flaming)*	-	-
(Acidity)**	-	-

*rotted and floating or slightly emersed
**sumerged most plant mass below surface
SEE BACK OF PAGE FOR "TYPICAL"
STRATA DESCRIPTIONS STRATA CAN VARY BY COVER TYPE.

EARTH SURFACE & GROUND COVER	
Underlying Earth Surface <sup>1</sup>	Ground Cover
(Sum = 100%)	percent
Hillock	0
Muskeg Soil	90
Gravel-Cobble <sup>2</sup>	10
Boulder <sup>3</sup> *	0
Boulders-Litter	0
Water	0
Bare Soil	25
Road/Tail	0
Outer	0

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

**MICROTOTOPOGRAPHIC FEATURE COUNTS - Intensive modules only**

Rank for microhabitat features. Select one or select two and average the score. **NOTE:** If module fails on a slope automatically gets ranked based on steepness (1-3)

**Slope 1** = slight elevation grade across module (hill)

**Slope 2** = fails on slope ~20°

**Slope 3** = maximum steepness that can be safely sampled ~45°

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

1 feature is present in very small amounts, but not of highest quality, or in small amounts of highest quality

2 feature is present in moderate amounts and of highest quality

3 feature is present in very large amounts and of highest quality

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

c.w.d. - count for pieces with minimum 1m length

no. of tufts	no. of hummocks	no. macro depressions	c.w.d. (2-12 cm)	c.w.d. (12-40cm)	c.w.d. (>40 cm)	microstab interspers.	microstab depth 1	microstab depth 1	microstab SLOPE	microstab rank
depth 3	depth 2	depth 1	10x10m	10x10m	10x10m	10x10m	10x10m	10x10m	10x10m	
1x1m										
mot#	corner	(count)	(count)	(count)	(count)	(count)	(count)	(count)	(rank)	
2	C	C	1	12	C	0	2	3		
3	C	C	1	14	C	2	2	3		
8	C	C	3	18	C	0	2	2		
9	C	C	2	13	C	0	2	2		

MCNAB INDICES (degrees) + for up...for down [FILLED OUT USING GIS PROGRAM - DO NOT FILL OUT IN FIELD]										
LFI*			TSI**			LFI is angle of plot to the horizon. TSI is angles formed by local slopes. For TSI measure angle from scorers eye to eye of person standing ~10 m away.				
Module	N	S	E	W		LFI	NE	SW	SE	SW
2	7	3	0	2		-45 degrees	+90 degrees	+135 degrees	+180 degrees	+225 degrees
3	5	4	1	0		0	0	0	0	0
8	3	3	18	2		0	0	0	0	0
9	0	2	13	4		0	0	0	0	0

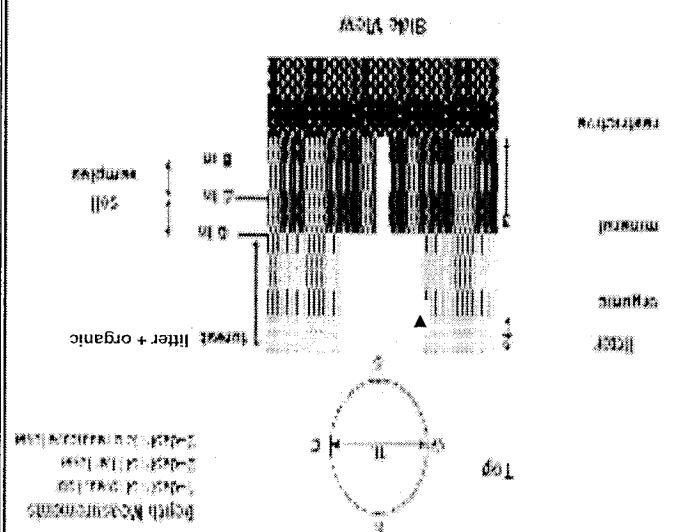
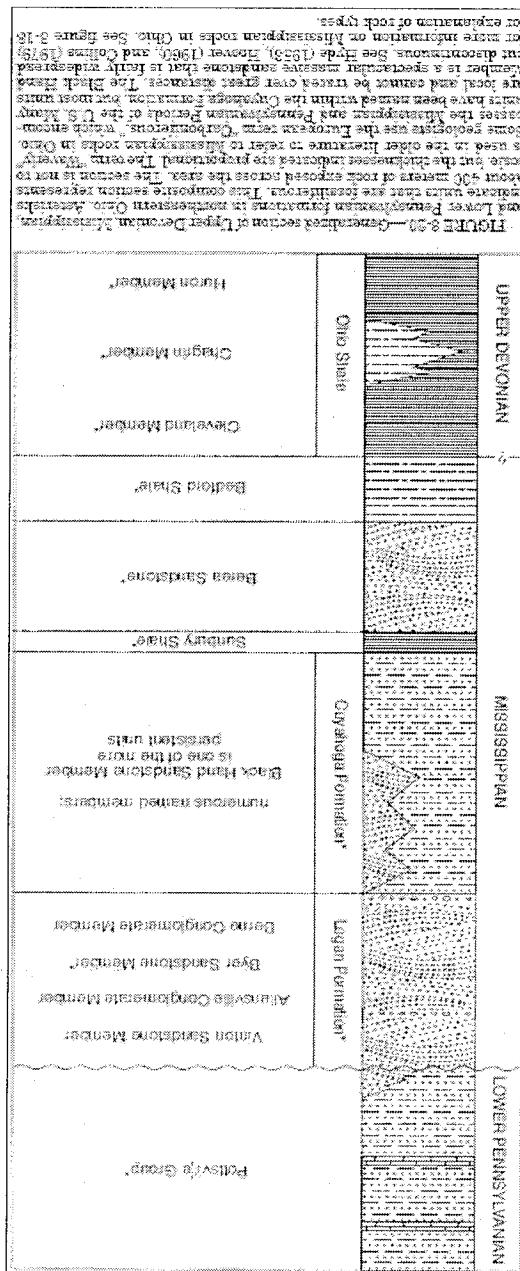
\* Landform Index (position within landscape)  
\*\* Terrain Shape Index (site microtopographic shape)

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

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

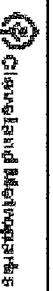
c.w.d. = course woody debris

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



\*\*Very tall shrubs are sometimes included in the tree stratum which case they would span the heet and shrub layers.  
 \*\*\*Tree seedlings are often defined as up to 1.4 m height or as < 2.5 cm DBH in can also include seedlings of shrubs, i.e. all shrubs < 0.5 m  
 \*\*\*\*Tree seedlings are often defined as up to 1.4 m height or as < 2.5 cm DBH in which case they would span the heet and shrub layers.

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



Project label: PCAP Project Name: OJ BK DO

Plot No.: 1200

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 # 2 (one per entire plot)

5 cm	matrix color	<u>10YR 3/1</u>
	mottle color	<u>—</u>
	%mottle	<u>—</u>
	oxid roots	<u>Y</u>
	texture*	<u>1</u>
	redox features**	<u>Y</u>
	hyd. cond. ***	<u>I S N D</u>
20 cm	matrix color	<u>10YR 4/4</u>
	mottle color	<u>—</u>
	%mottle	<u>—</u>
	oxid roots	<u>Y</u>
	texture*	<u>1</u>
	redox features**	<u>Y</u>
	hyd. cond. ***	<u>I S M D</u>
*	refer to texture classes on reverse side	<u>Uf, d</u>
** e.g. hydrogen sulfide odor, gleying, etc.		
*** Circle one:		
I=indurated S=saturated M=moist D=dry		
<b>Notes:</b> include evidence of earthworms (worms, castings, middens)		

**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)

2,3,8,9 compositd      A

**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 Description/notes:

matrix color 10YR 3/1

Soil Series/Type: Udorthents Loamy (ta)

Soil Series Source: Ohio Soil Survey

Landform type:

Parent Material:

DRAINAGE\*

nearest 0.1 cm in center of intensive modules. If >30.5 cm, record as >30

1 litter + organic depth(cm)  
mod# (cm) [WSS]

2      6      5      66      0      >30

3      1      1      66      0      >30

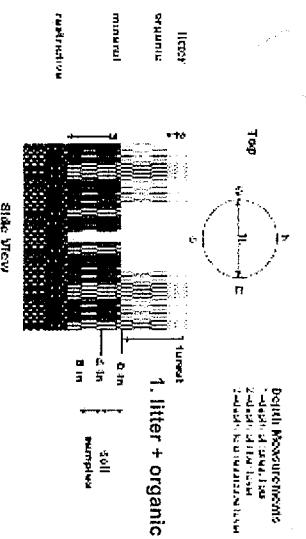
8      C      0      46      C      >30

9      1      1      51      0      >30

Length of soil probe = 125 cm  
Use Web Soil Survey for #3 Restrictive layer dept.

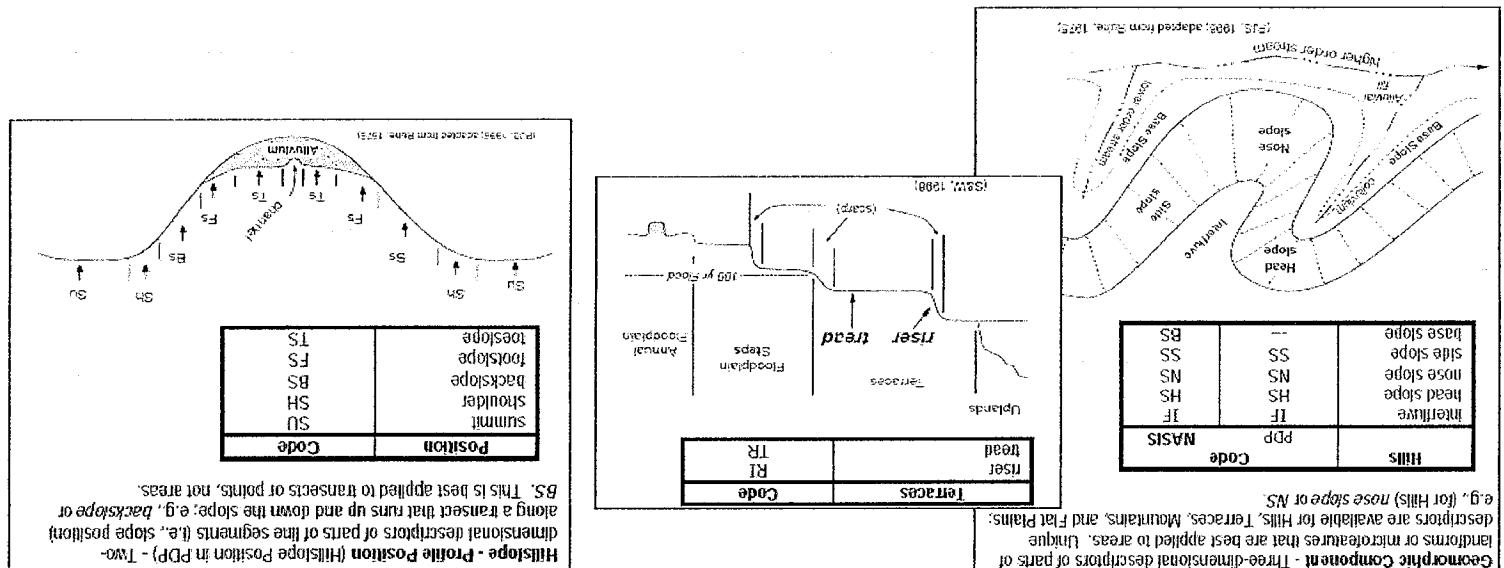
>80cm

Depth Requirements	
Depth of 125 cm	
Litter + organic	
Soil	
Restrictive	



<b>PERMANENTLY FLOODED</b>	Water covers the land surface at all times of the year in all years. Equivalent to Cowardin's "permanently flooded".
<b>SEMI-PERMANENTLY FLOODED</b> (exposed <1/year)	Surface water persists throughout the growing season in most years. Land surface is normally saturated when water level drops below soil surface. Includes Cowardin's Intermittently Exposed and Semipermanently Flooded models.
<b>INTERMITTENTLY FLOODED</b>	Surface water is usually exposed, but surface can be present for variable periods without detectable seasonal periodicity. Inundation is not predictable to a given season and is dependent upon highly localized rain storms. This model was developed for use in the arid West for water regimes of Playa lakes, intermittent streams, and dry washes but can be used in other parts of the U.S. where appropriate. This model can be applied to both wetland and non-wetland situations. Equivalent to Cowardin's Intermittently Flooded.
<b>TEMPORARILY FLOODED</b>	Surface water present for brief periods during growing season, but water table usually lies well below soil surface. Often characterizes flood-plain levees and lower terraces. Equivalent to Cowardin's Temporally modeler.
<b>OCASIONALLY FLOODED</b>	Surface water present for brief periods during growing season, but not in most years. Often characterizes flood-plains and lower terraces.
<b>PERMANENTLY/SEMI-PERMANENTLY SATURATED</b>	Dry less than 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 modeler.
<b>INTERMITTENTLY/SEASONALLY SATURATED</b>	Dry at least once per year. Surface water is seldom present, but substrate is saturated to surface for extended periods during the growing season.
<b>UPLAND</b>	Not a wetland. Very rarely flooded.

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



Class	Code	Covt.	NASIS	Criteria: % of Surface Area Covered	Common	Mary							
Few	L	#	m	$\leq 20$									
	C	#	m	$> 2$									
Soil Texture:	Record the code for the soil texture of the top 5 cm 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 self-supporting ribbon. Samples which form both a ball and a ribbon should be coded as clayey; samples which form a ball but not a ribbon should be coded as loamy.												
Organic:	O												
Loamy:	1												
Clayey:	2												
Sandy:	3												
Coarse Sand:	4												
Not measured - make plot note:	9												
Geomorphic Components:	Three-dimensional descriptions of parts of landscapes or microcatchments that are best applied to areas, unique dimensions or characteristics that are best applied to hills, terraces, mountainous, and flat plains; e.g., slope profile or hillslope - nose slope or NS.												
Hillslope Profile Position:	Two-dimensional descriptions of parts of hillslopes along a transect that runs up and down the slope; e.g., backslope or along a transect that runs up and down the slope; e.g., backslope of desimplicies or microcatchments that are best applied to hills, terraces, mountainous, and flat plains; e.g., (for hills) nose slope or NS.												
Percent Mottles (use class codes):	<table border="1"> <tr> <td>Common</td> <td>Code</td> <td>Covt.</td> <td>NASIS</td> <td>Criteria: % of Surface Area Covered</td> <td>Common</td> <td>Mary</td> </tr> </table>						Common	Code	Covt.	NASIS	Criteria: % of Surface Area Covered	Common	Mary
Common	Code	Covt.	NASIS	Criteria: % of Surface Area Covered	Common	Mary							

# FORM B-1: BUFFER SAMPLE PLOTS (Front)

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

Site ID: PCAP BK 1200

DATE: 09/28/2011

Location:

AA Center  N  S  E  W

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

Plot 1  Plot 2  Plot 3

## Buffer Natural Cover Strata

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

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

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

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

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

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

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

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

2428168304

FORM B-1: BUFFER SAMPLE PLOTS - TARGETED ALIEN SPECIES (Back)																																																																																																																																																																																																													
Site ID: CAP BK 1300 DATE: 09/28/2011											Reviewed by (initials):																																																																																																																																																																																																		
<p>④ Confirm a filled data bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble</p> <table border="1"> <thead> <tr> <th colspan="3">Fill bubble if present - Plot</th> </tr> <tr> <th>1</th><th>2</th><th>3</th><th>1</th><th>2</th><th>3</th><th>1</th><th>2</th><th>3</th><th>1</th><th>2</th><th>3</th> </tr> <tr> <th>Flag</th><th>Flag</th><th>Flag</th><th>Flag</th><th>Flag</th><th>Flag</th><th>Flag</th><th>Flag</th><th>Flag</th><th>Flag</th><th>Flag</th><th>Flag</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/></td><td><input type="checkbox"/></td> </tr> <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>Johnson 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>Perennial Pepperweed</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>Common Buckthorn</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>Giant Salvinia</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td></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><td>Cheatgrass</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td> </tr> <tr> <td>Garlic Mustard</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Tamarsk</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Rabbit-ear Grass</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></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 Buckthorn</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></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>Canada Thistle</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Leaky Spurge</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Other:</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td> </tr> <tr> <td colspan="12" style="text-align: center;">PLOT COORDINATES</td> </tr> <tr> <td colspan="12"> <p>Provide GPS coordinates at the center of the Buffer Plot (#3) at the rear end of each Buffer Transect and for the Buffer Plot at the AA CENTER. 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# FORM B-1: BUFFER SAMPLE PLOTS (Front)

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

Site ID: PCAP BK 1200

DATE: 09/28/2011

Location:

AA Center     N     S     E     W

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

Plot 1     Plot 2     Plot 3



## Buffer Natural Cover Strata

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

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

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

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

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

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

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

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

2428168304

FORM B-1: BUFFER SAMPLE PLOTS - TARGETED ALIEN SPECIES (BACK)											
<input type="checkbox"/> Confirm a filled data bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble <input checked="" type="checkbox"/> Fill bubble if present - Plot 1 <input type="checkbox"/> Fill bubble if present - Plot 2 <input type="checkbox"/> Fill bubble if present - Plot 3 <input type="checkbox"/> Flag											
<input checked="" type="checkbox"/> Water hyacinth <input type="checkbox"/> Purple Loosestrife <input type="checkbox"/> Johnson Grass <input type="checkbox"/> Kudzu <input checked="" type="checkbox"/> Yellow Floating Heart <input type="checkbox"/> Japanese Knotweed <input type="checkbox"/> Multiflora Rose <input type="checkbox"/> Himalayan Blackberry <input checked="" type="checkbox"/> Garlic Mustard <input type="checkbox"/> Perennial Pepperweed <input type="checkbox"/> Common Buckthorn <input type="checkbox"/> Tamarisk <input checked="" type="checkbox"/> Mil-A-Minute Weed <input type="checkbox"/> Reed Canary Grass <input type="checkbox"/> Other <input checked="" type="checkbox"/> Birdfoot Trefoil <input type="checkbox"/> Common Reed <input type="checkbox"/> Other <input checked="" type="checkbox"/> Canada Thistle <input type="checkbox"/> Leafy Spurge <input type="checkbox"/> Other											
Provide GPS coordinates at the center of the Buffer Plot (#3) at the end of each Buffer Transect and for the Buffer Plot at the 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 end of each Buffer Transect and for the Buffer Plot at the CENTER. Indicate the location of the plot coordinates by filling in the appropriate bubble.											
Location of coordinates (choose one): <input checked="" type="checkbox"/> AA CENTER <input type="checkbox"/> Q3 <input type="checkbox"/> Flag											
Latitude North <b>41.44537</b> Longitude West <b>081.71285</b> Use Decimal Degrees; NAD83											
OA CENTER <input type="checkbox"/> Q3 <input type="checkbox"/> OA Nearest practicable location (Flag and comment below)											
Flag <input type="checkbox"/> Emu Pen <input type="checkbox"/> Nest Plot 1 (Cooperatives)											
1. <i>Wetland - Shrub - Grass</i> 2. <i>Wet Forest Muds in Australian Aviary - CMZ</i> 3. <i>Emu Pen</i> 4. <i>Nest Plot 1 (Cooperatives)</i>											

**FORM B-1: BUFFER SAMPLE PLOTS (Front)**

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

Site ID: PCAP BK 1200

DATE: 09/28/2011

**Location:**

AA Center     N     S     E     W

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

Plot 1     Plot 2     Plot 3

**Buffer Natural Cover Strata**

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

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

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

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

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

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

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

2428168304

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

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	3	Flag
Eurasian Watermilfoil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Purple Loosestrife	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Johnson Grass	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Water Hyacinth	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Knotweed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Kudzu	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Yellow Floating Heart	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Japanese Knotweed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Muliflora Rose	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Garlic Mustard	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Giant Reed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Himalayan Blackberry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Poison Hemlock	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cheatgrass	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Tamarsk	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mile-A-Minute Weed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Rabbit Canary Grass	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Birdsfoot Trefoil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Common Reed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Leaky Spurge	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Canada Thistle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Common Reed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Provide GPS coordinates at the center 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.											
Plots are centered on the Buffer Transects and the coordinates will indicate the location ALONG THE TRANSPECT. This is important because all Buffer Plots are centered as close to the center of Plot 3 as possible or at the center of the last accessible Buffer Plot.											
Plots are centered 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.											
Provide GPS coordinates at the nearest practicable location ALONG THE TRANSPECT. This is important because all Buffer Plots are centered as close to the center of Plot 3 as possible or at the center of the last accessible Buffer Plot.											
Locaton of coordinates (choose one):											
Flag											
Latitude North 41.44521 Longitude West 0.8171188 Use Decimal Degrees; NAD83											
Plot 3 could not be sampled since it fell in the Donkey pen.											
Comments											
1. Too GPS at closest pt to pen.											



Plots 2 and 3 could not be sampled because they went into annuals pens (sound areas) too dangerous to sample									
Flag	Comments								
Latitude North 41 44 17.6 Longitude West 081 21.70 Use Decimal Degrees, NAD83									

Provide GPS coordinates at the center of each Buffer Transect and for the AA CENTER. Indicate the location of the plot coordinates by filling in the appropriate bubble.

Plots are centered on the Buffer Transects and the coordinates will indicate the location of the transect. Fill in the "nearest practicable location" bubble, fill in the flag box, and describe where the coordinates were taken and why in the comment section. This is important because all Buffer Plot 3 can not be accessed, take the nearest practicable location ALONG THE TRANSPECT. This is because all Buffer Plots are centered on the Buffer Transects and the coordinates will indicate the location of the transect. Fill in the "nearest practicable location" bubble, fill in the flag box, and describe where the coordinates were taken and why in the comment section. 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.

AA CENTER     S3     E3     Nearest practicable location (flag and comment below)

Location of coordinates (choose one):

Flag

PLOT COORDINATES											
Fill bubble if present - Plot 1	<input type="radio"/> 2	<input type="radio"/> 3	Flag	Fill bubble if present - Plot 1	<input type="radio"/> 2	<input type="radio"/> 3	Flag	Fill bubble if present - Plot 1	<input type="radio"/> 2	<input type="radio"/> 3	Flag
○ Confirm a filled data bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble											
Site ID: GEG B121200 DATE: 09/28/2011											
Reviewed by (initials):											
FORM B-1: BUFFER SAMPLE PLOTS - TARGETED ALIEN SPECIES (Back)											

# FORM B-1: BUFFER SAMPLE PLOTS (Front)

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

Site ID: PCAP BK 1200

DATE: 09/28/2011

Location:

O AA Center O N O S O E O W

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

© Plot 1 © Plot 2 © Plot 3

## Buffer Natural Cover Strata

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

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

Buffer Plot 1	Canopy Type: (D E)		Absent: ( )	Buffer Plot 2	Canopy Type: (D E)		Absent: ( )	Buffer Plot 3	Canopy Type: (D E)		Absent: ( )
	Leaf Type: (B N)	Flag	Leaf Type: (B N)		Leaf Type: (B N)	Flag	Leaf Type: (B N)		Leaf Type: (B N)	Flag	
Big Trees (>0 3m DBH)	(0)	(1)	(2)	(3)	(4)	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 (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/Spoil Banks	○	○	○		Fallow Field (OLD - GRASS, SHRUBS, TREES)	○	○	○	
Lawn/Park	○	○	○		Freshly Deposited Sediment (UNVEGETATED)	○	○	○		Nursery	○	○	○	
Suburban Residential	○	○	○		Soil Loss/Root Exposure	○	○	○		Dairy	○	○	○	
Urban/Multifamily	○	○	○		Wall/Riprap	○	○	○		Orchard	○	○	○	
Landfill	○	○	○		Inlets, Outlets	○	○	○		Confined Animal Feeding	○	○	○	
Dumping	○	○	○		Point Source/Pipe (EFFLUENT OR STORMWATER)	○	○	○		Rural Residential	○	○	○	
Trash	○	○	○		Impervious surface input (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 (INSECT)	○	○	○		Soil Compaction (ANIMAL OR HUMAN)	○	○	○	
Military	○	○	○		Shrub Layer Browsed (WILD OR DOMESTIC)	○	○	○		Offroad vehicle damage	○	○	○	
Other: _____	○	○	○		Highly Grazed Grasses (OVERALL <3" HIGH)	○	○	○		Soil erosion (FROM WIND, WATER, OR OVERUSE)	○	○	○	
Other: _____	○	○	○		Recently Burned Forest Canopy	○	○	○		Other: _____	○	○	○	
Other: _____	○	○	○		Recently Burned Grassland (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

PLOT COORDINATES											
Flag			Flag			Flag			Flag		
<input type="checkbox"/> AA CENTER	<input type="checkbox"/> N3	<input type="checkbox"/> S3	<input type="checkbox"/> E3	<input type="checkbox"/> W3	<input checked="" type="checkbox"/> Nearest Practicable Location (flag and comment below)						
Provide GPS coordinates at the center of the Buffer Plot (#3) at the far end of each Buffer Transect and for the Buffer Plot at the AA CENTER. Indicate the location of the plot coordinates by filling in the appropriate bubble.											
If Buffer Plot 3 can not be accessed, take the coordinates at the nearest practicable location ALONG THE TRANSECT. This is important because all Buffer Plots are centered on the Buffer Transects and the coordinates will indicate the location of the transect. Fill in the "nearest practicable location" bubble. Fill in the flag box, and describe where 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 41.44492 Longitude West 081.33322 Use Decimal Degrees; NAD83											
Comments 1 Could not sample plots 1, 2 or 3. Plots fall in language use zone in Australia											
Flag											

# CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

<b>GENERAL INFORMATION</b>																			
<b>Project Label:</b>	PCAP																		
<b>Project Name:</b>																			
<b>Plot Name:</b>																			
<b>Plot No.:</b>																			
<input type="checkbox"/> Level 4 (no nested corners sampled)		<input checked="" type="checkbox"/> Level 5 (nested corners sampled)																	
<b>Date (mm/dd/yyyy):</b>	/ /																		
<b>End date (if &gt; 1 day):</b>	/ /																		
<b>Party</b>	<b>Role**</b>																		
	<input type="checkbox"/> Plot leader																		
	<input type="checkbox"/> Co-leader, Asst. Guide, Owner, Taxonomer, etc.																		
<b>PLOT NOT SAMPLED:</b>																			
<input type="checkbox"/> Perm. water <input type="checkbox"/> Paved <input type="checkbox"/> Slope <input type="checkbox"/> Safety																			
<b>SAMPLING QUALITY*</b>																			
<b>Effort Level:</b> <input type="checkbox"/> Very thorough <input type="checkbox"/> Accurate <input type="checkbox"/> Hurned																			
<b>TAXONOMIC ACCURACY</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">high</td> <td style="width: 25%;">modera.</td> <td style="width: 25%;">low</td> <td style="width: 25%;">not samp!</td> </tr> <tr> <td>vascular</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!	vascular			n/a	bryo				lichen			
high	modera.	low	not samp!																
vascular			n/a																
bryo																			
lichen																			
<b>TAXONOMIC STANDARD</b>																			
<b>Authority:</b>	G&C	<b>Pub Date:</b>	1998																
Minimum required fields in <b>Bold</b> and <b>Underlined</b> *Definitions and values in CM PCAP FOM v. 1.0 and CVS Field Guide																			

**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

Fit= \_\_\_\_\_ Conf= \_\_\_\_\_

**HOMOGENEITY**

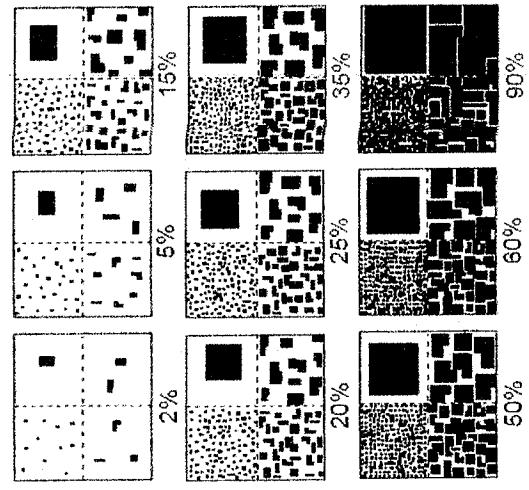
(Representativeness of plot to the stand, successional status, maturity, etc.)

 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 Well drained Moderately well dr. Somewhat poorly dr. Very poorly dr. Impermeable surface**SALINITY\*** Saltwater Brackish Fresh Upland (n/a)**HYDROLOGIC REGIME\*** Intermittently flooded Semipermanently flooded Permanently flooded Tidal/Seiche flooded daily Tidal/Seiche flooded monthly Tidal/Seiche flooded irregular (e.g. wind, storms) Unknown**COMMUNITY NAME:****ADDITIONAL NOTES & DIAGRAMS:** (Representativeness of plot to the stand, successional status, maturity, etc.) Homogeneous Compositional trend across the plot Conspicuous inclusions Irregular/pattern mosaic



#### EXAMPLES OF PERCENT OF AREA COVERED

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



#### 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.

