

CLEVELAND METROPARKS Plant Community Assessment Program: Quality Control Form



Project Label:

PCAP

Plot No:

1272

Date Sampled:

7-3-12

Lead: Elysenbach

Comment required if item answer is NO

Parking/Access outside of Park Boundaries:	Y	N	If yes, write details in Comments section below
Field journals completed	<input checked="" type="radio"/> N		
Site sketch made on 1:3000 map?	<input checked="" type="radio"/> N		
Check cover page	X-axis Bearing of plot recorded	<input checked="" type="radio"/> N	
	GPS coords Recorded	<input checked="" type="radio"/> N	
	North direction recorded	<input checked="" type="radio"/> N	
	Photographs taken?	<input checked="" type="radio"/> N	
Plot No., Date agreement on all pages?	<input checked="" type="radio"/> N		
Header data completed all pages?	<input checked="" type="radio"/> N		
Cover classes recorded in all Intensive modules	<input checked="" type="radio"/> N		
Browse Level By Species	<input checked="" type="radio"/> N		
Woody stem quality control check	<input checked="" type="radio"/> N		
Invasive plant quality control check	<input checked="" type="radio"/> N		
Ash trees mapped	<input checked="" type="radio"/> N		
Cover by Strata? (confirm cover type)	<input checked="" type="radio"/> N		
Soil samples collected with matching plot #.	<input checked="" type="radio"/> N		
Vouchers labeled on datasheet with initials and number	<input checked="" type="radio"/> N		
Vouchers labeled on collection bag	<input checked="" type="radio"/> N		
Pink flags removed	<input checked="" type="radio"/> N		
Data sheet QA before leaving site?	<input checked="" type="radio"/> N		
Common equipment returned to tub.	Y	N	
Data sheets scanned?			Enter date to left <i>SL 8/3/12</i>
Final data sheets scanned?			Enter date to left
Buffer Widths measured?	<input checked="" type="radio"/> N		<i>KEL 7-3-12</i>
Web Soil Survey	<input checked="" type="radio"/> N		<i>SL 8/3/12</i>
Voucher Location	Refrigerator	Y	N
(# vouchers collected)	Press (#)	Enter number to left	
	Drier	Y	N
	Identified	Y	N
	Mounted	Y	N
	Thrown away	Y	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

Page 1 of 2

GENERAL INFORMATION		LOCATION	
Project Label: PCAP		State: OH County: Cuyahoga	
Project Name: <u>DISC 1272</u>		Quadrangle: <u>Chagrin Falls</u>	
Plot Name: <u>Creepers Van Man</u>		Local Place Names: <u>Hawthorne Pkwy</u> <u>2nd St</u>	
Plot No.: <u>1272</u>		Landowner: <u>CM</u>	
■ Level 4 (no nested corners sampled)		■ Level 5 (nested corners sampled)	
Date (mm/dd/yyyy): <u>7/31/2012</u>		End date (if > 1 day): <u>/ /</u>	
Party: <u>S. Frenck</u> Plot leader		Role**: <u>Asst</u>	
■ <u>J. Kistler</u> Asst		■ <u>B. Ruck</u> Asst	
** Roles: Co-leader, Asst, Guide, Owner, Taxonomist, etc.		Source of coordinates <input type="checkbox"/> MAP <input checked="" type="checkbox"/> GPS	
PLOT NOT SAMPLED: <input type="checkbox"/> Other		Coordinate system: <input type="checkbox"/> Lat/Long <input type="checkbox"/> UTM <input type="checkbox"/> StatePlane	
□ Perm. water <input type="checkbox"/> Paved <input type="checkbox"/> Slope <input type="checkbox"/> Safety		Coord. Units: <input type="checkbox"/> m <input type="checkbox"/> ft <input type="checkbox"/> deg <input type="checkbox"/> deg min	
TAXONOMIC STANDARD		Sampling Quality*	
Effort Level: <input checked="" type="checkbox"/> Very thorough <input type="checkbox"/> Accurate <input type="checkbox"/> Hurried		subjective evaluation of how much effort put into sampling. Hurried plots may still provide good data	
TAXONOMIC ACCURACY		Depth: (1-5): <u>4</u>	
Intensive modules: 2, 3, 8, 9 (EDIT IF MODIFIED)		Shrub: <u>Sugar Maple, Spice Bush</u>	
vascul. <input checked="" type="checkbox"/>		Herb: <u>Partridge berry, Solidago, Cassia</u>	
bryo <input checked="" type="checkbox"/>		Prairie and <u>Prunus</u> and <u>Prunus</u> seedling	
lichen <input checked="" type="checkbox"/>		OVER	
Minimum required fields in Bold and Underlined			

*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: DISC 2012

Plot No: 1272

Page 2 of 2

MODIFIED NATURE RESERVE CLASS*

CODE (on separate form):

Fit: Conf:

D

COMMUNITY NAME:

Mixed

HOMOGENEITY

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

HYDROLOGIC REGIME*

- Upland (seldom flooded)
 Intermittently/seasonally saturated (seldom flooded)
 Permanently/Semipermanently saturated (dry <1/yr; seldom flooded)
 Occasionally flooded (<1/yr)
 Temporarily flooded (e.g. wind, storms)
 Unknown
- Intermittently flooded
 Semipermanently flooded
 Permanently flooded
 Tidal/Seiche flooded daily
 Tidal/Seiche flooded monthly
 Tidal/Seiche flooded irregular

(by default unless plot is a wetland)

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

Plot is located along the bridge trail and a small stream. The canopy is dominated by Red Maple w/a Red Oak, Sugar Maple, Black Cherry, Walnut. The shrub layer has Spice bush and Sugar Maples regenerating. The understory is sparse with Virginia creeper, Carex swanii, Partridge berry, Solidago caesia and Fraxinus seedlings/Prunus seedlings. Browse is high on the woody shrubs and seedlings. The Rosa multiflora was decimated by browse. Many invasive were found in and around the plot including Lonicera maackii, Lonicera morrowii, Garlic mustard, Rosa multiflora. There was also a large winged burning bush just outside the plot.

CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet 2a

Project Label: PCAP

Project name: 01552012

Plot no.: 1272

Page 1 of 3

Total modules: 10

Intensive modules: 4

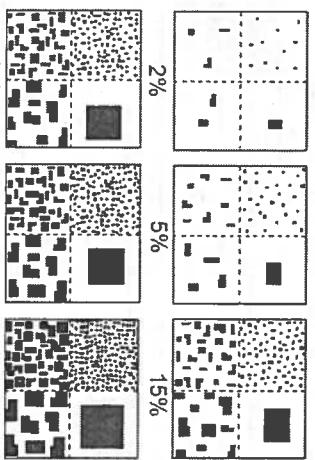
Plot configuration: 2x5

Plot area (ha): 0.1

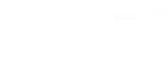
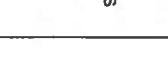
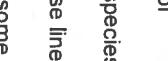
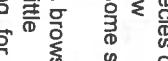
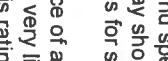
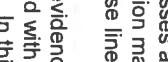
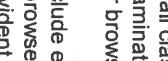
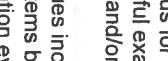
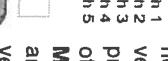
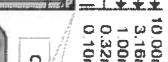
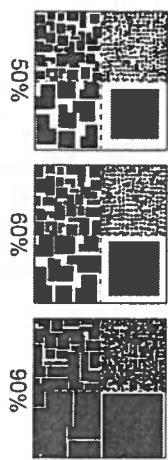
Strata - Cov entire plot	T	S	H	(F)(A)	Br	Species	C	Intensive modules:												
								mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	
74	4	4	2	8	¹⁵ 8	<i>Fagus grandifolia</i>	4	4	2	2	3	2	8	4	2	9	2	4	7	^R R
8	2	15	2	15	<i>Acer rubrum</i>			8	4	4	6	4	2	8	4	6	4	7	^R R	
6	15	¹⁵ 8	¹⁵ 8	¹⁵ 8	<i>Acer saccharum</i>			2	8	4	2	3	2	2	1	2	2	2	^R R	
3	2	3	2	3	<i>Troxinus sp. (seedlings)</i>			3	2	3	2	2	1	2	2	2	2	2	^R R	
6	2	6	2	6	<i>Quercus sp. (seedlings)</i>			4	2	2	3	2	2	2	2	2	2	2	^R R	
2	2	7	2	7	<i>Feuonymus obovatus</i>			2	2	2	2	2	2	2	2	2	2	2	^R R	
2	2	8	2	8	<i>Parthenocissus quinquefolia</i>			2	2	2	1	2	2	2	2	2	2	2	^R R	
1	1	8	1	8	<i>Smilax hispida</i>			2	1	2	2	3	2	2	3	2	2	2	^R R	
2	2	9	2	9	<i>Acer sp. (seedlings)</i>			2	1	2	2	3	2	2	3	2	2	2	^R R	
5	2	8	2	8	<i>Prunus sorotina</i>			2	4	3	2	5	2	2	4	1	1	1	^R R	
4	2	8	2	8	<i>Crataegus sp.</i>			2	4	3	2	5	2	2	4	1	1	1	^R R	
4	2	8	2	8	<i>Magnolia acuminata</i>			2	4	3	2	5	2	2	4	1	1	1	^R R	
2	1	8	1	8	<i>Mitchella repens</i>			1	3	2	3	2	3	2	3	2	3	2	^R R	
1	1	8	1	8	<i>Aster sp.</i>			1	1	4	1	2	2	2	4	2	1	2	^R R	
2	2	10	2	10	<i>Solidago canadensis</i>			1	1	2	2	1	2	1	2	1	2	1	^R R	
2	2	8	2	8	<i>Cerex sinuata</i>			1	1	2	2	1	2	1	2	1	2	1	^R R	
4	2	8	2	8	<i>Lindera benzoin</i>			1	1	2	2	1	2	1	2	1	2	1	^R R	
2	2	8	2	8	<i>Fraxinus sp.</i>			1	3	2	3	2	3	2	3	2	3	2	^R R	
5	2	10	2	10	<i>Lonicera maackii</i>			1	3	4	2	3	2	5	2	3	5	1	^R R	
1	1	10	1	10	<i>Vitis cordifolia</i>			1	4	3	4	4	5	2	3	5	1	2	^R R	
2	2	10	2	10	<i>Ligustrum vulgare</i>			1	1	2	2	3	4	5	2	1	2	2	^R R	
2	2	8	2	8	<i>Lonicera morrowii</i>			1	2	2	3	4	5	2	3	4	1	2	^R R	
1	1	8	1	8	<i>Carya sp. (seedlings)</i>			1	2	2	3	4	5	2	3	4	1	2	^R R	
2	2	8	2	8	<i>Carya cordiformis</i>			1	2	2	3	4	5	2	3	4	1	2	^R R	

EXAMPLES OF PERCENT OF AREA COVERED

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



cover class	% cover	midpoint
1	solitary or few	0.001
2	0-1%	0.005
3	1-2%	0.015
4	2-5%	0.035
5	5-10%	0.075
6	10-25%	0.175
7	25-50%	0.375
8	50-75%	0.625
9	75-95%	0.850
10	95-100%	0.975



BROWSE RATING NARRATIVE DESCRIPTION

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

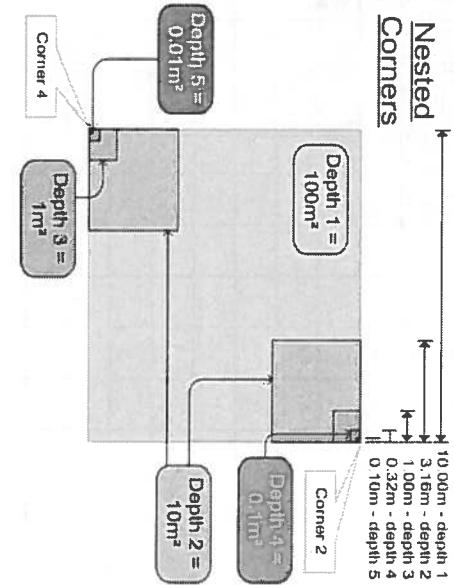
MEDIUM LOW values include evidence of browse at about 10 percent of the stems with no significant impact to plant reproduction evident. In this rating, plants are browsed but preferential species are observed to be reproducing in numbers that appear normal or near-normal in comparison to low browse areas.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

MEDIUM: browse affects greater than 10 percent and less than 25 percent of stems in the 1 m² nested quadrat and intensive module. A browse line is usually not evident or obvious for all classes and species of vegetation, but careful examination may show preferential browse and/or browse lines for some species of plants.

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

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

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



Depth 5 = 0.01m²

Depth 4 = 0.1m²

Depth 3 = 1m²

Depth 2 = 10m²

Depth 1 = 100m²

Corner 4

Corner 2

Corner 1

Corner 3

Corner 4

Corner 1

Corner 2

Corner 3

Corner 4

CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet 2a

Project Label:

Project name: 013C2612

Plot no.: 123

Page 1 of 1

Total modules: _____ Int'l _____

Intensive modules: 4 Plot configuration: 2x5

Plot area (ha): 0.1

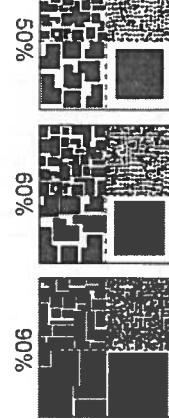
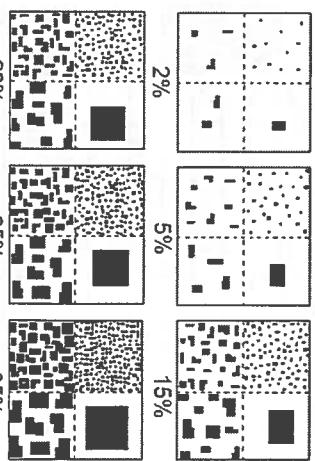


Cleveland
Metroparks

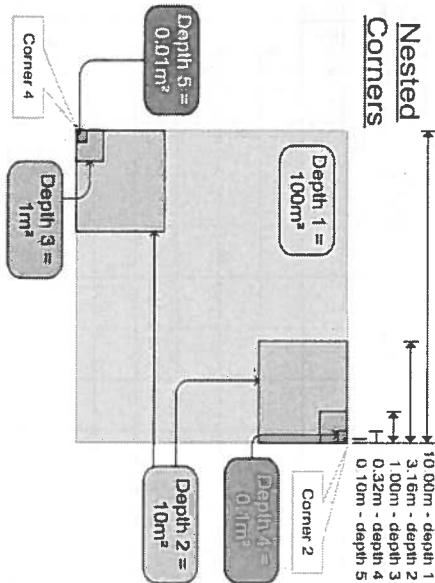
Br = Browse Level. Use cover classes to describe amount of browse per species over entire plot

EXAMPLES OF PERCENT OF AREA COVERED

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



Nested Corners



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

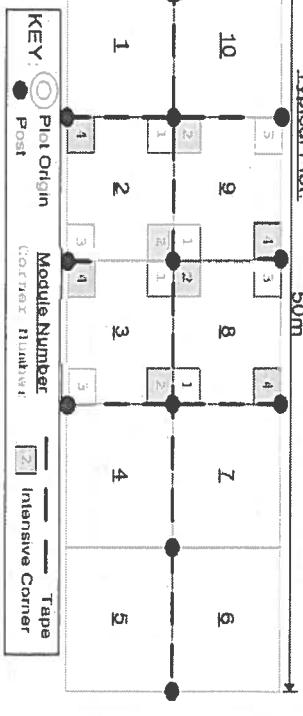
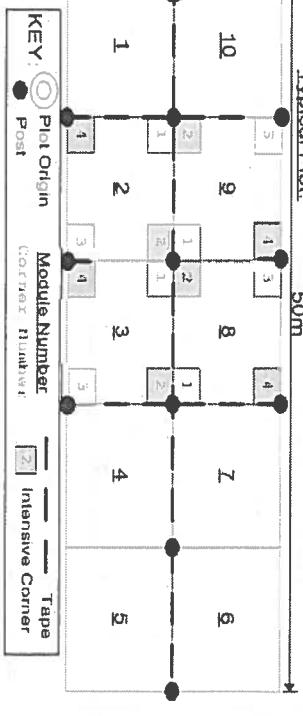
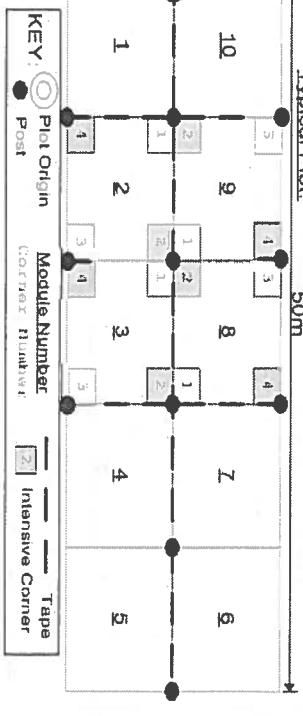
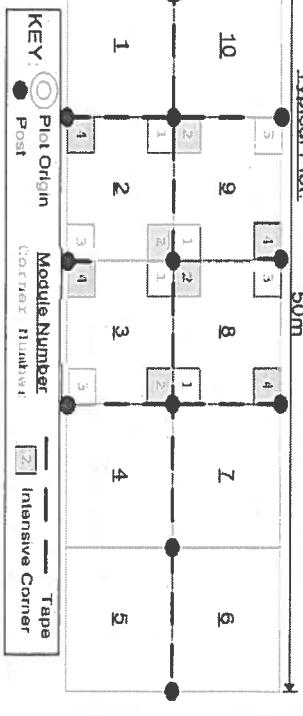
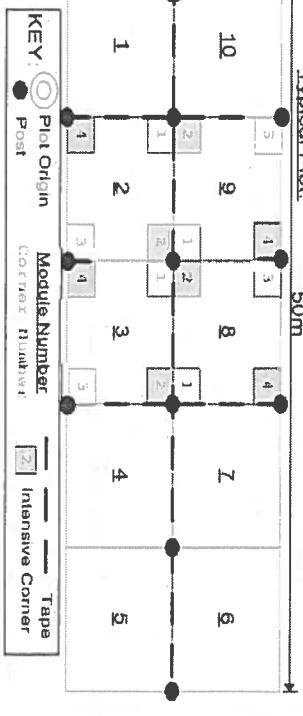
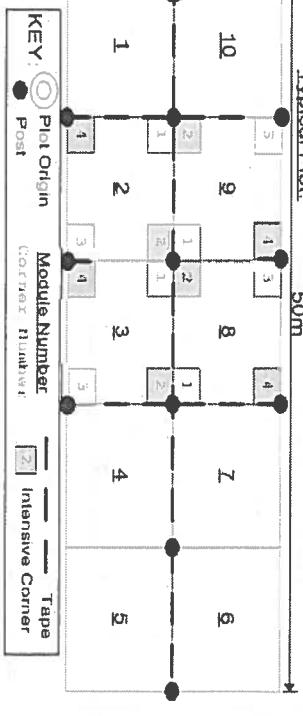
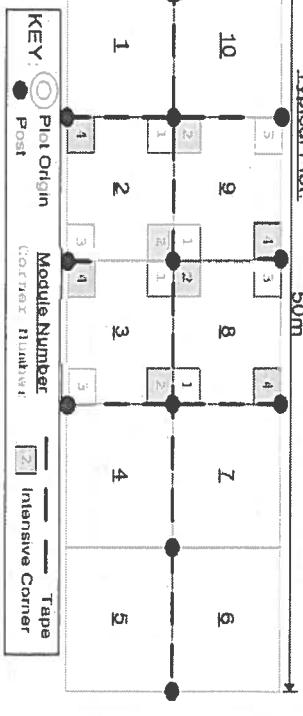
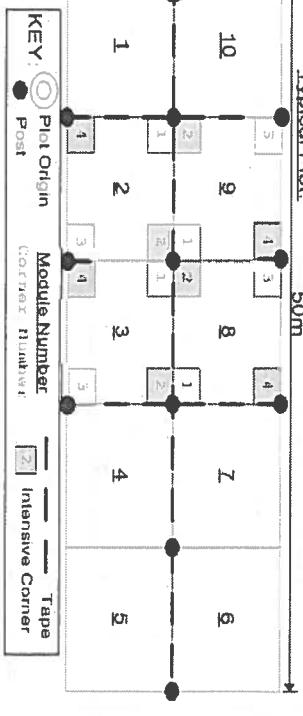
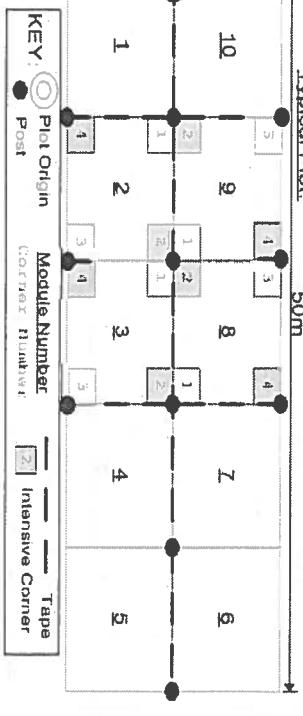
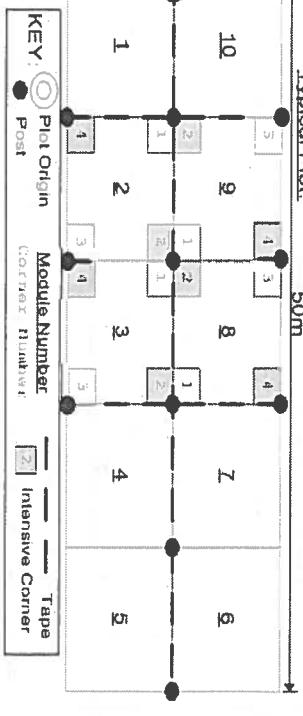
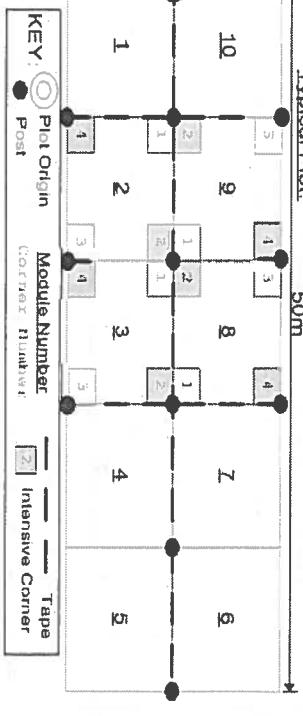
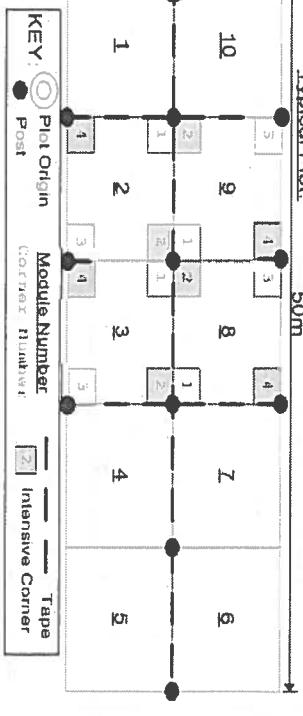
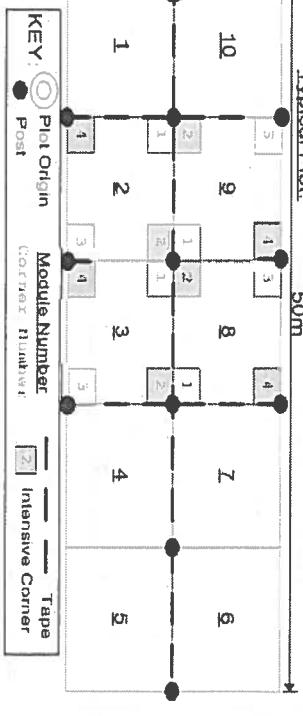
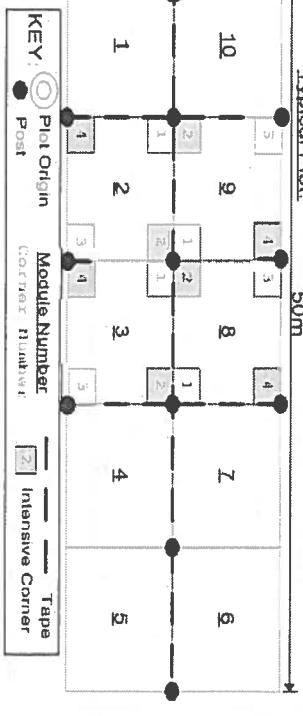
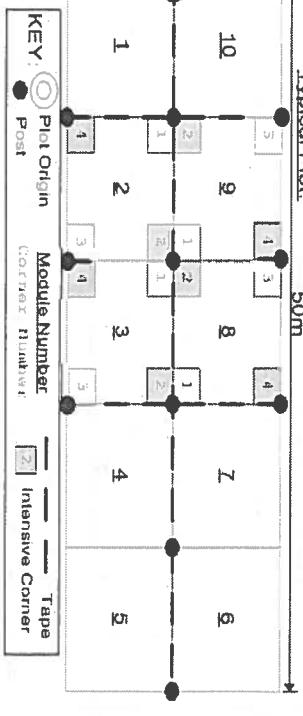
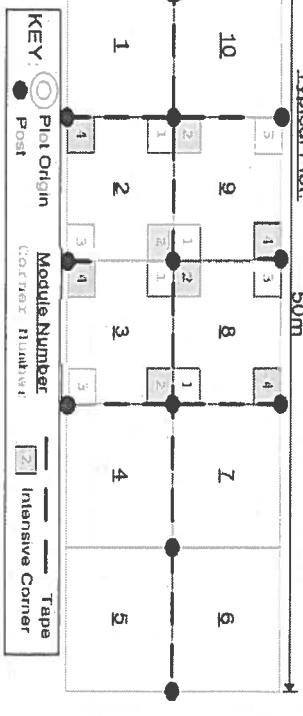
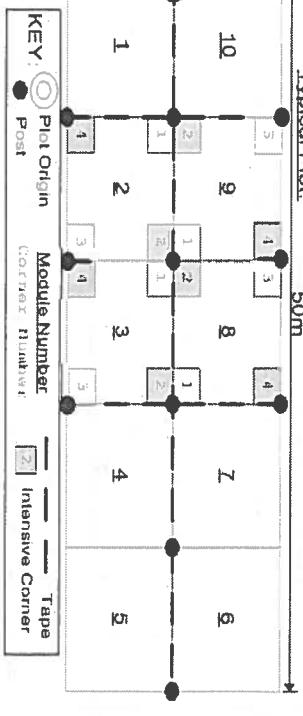
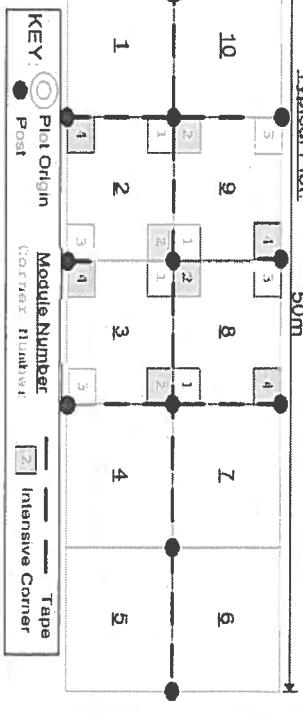
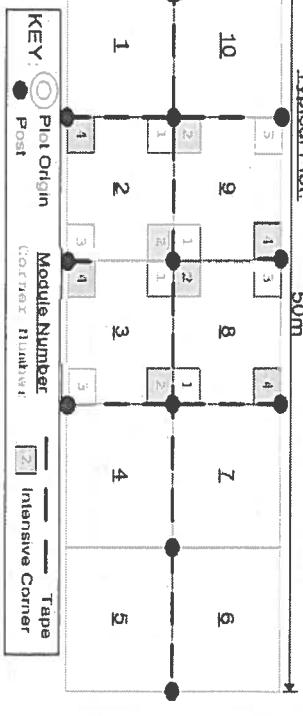
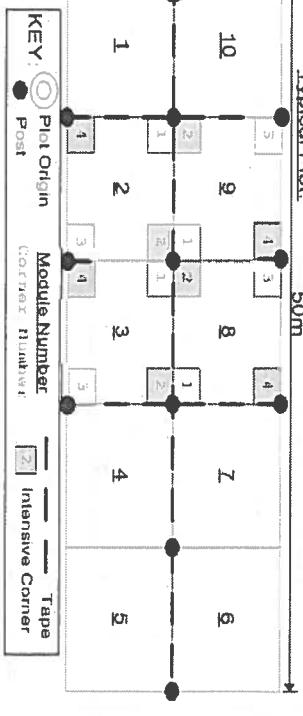
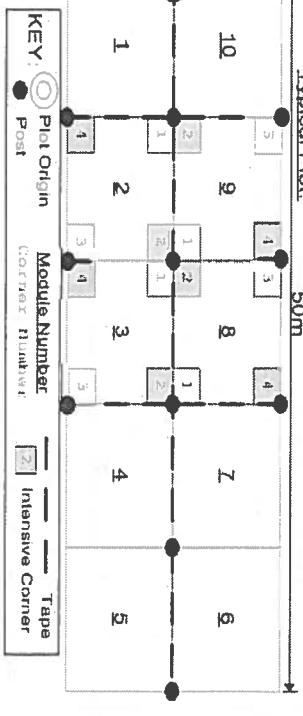
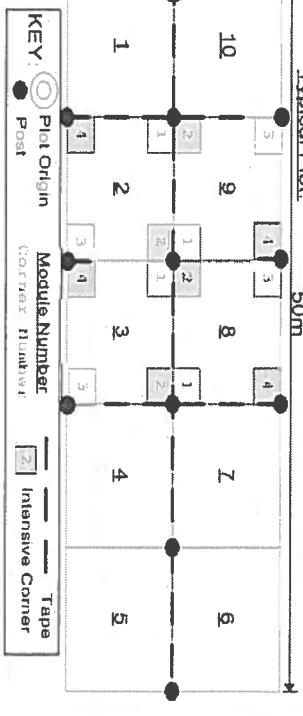
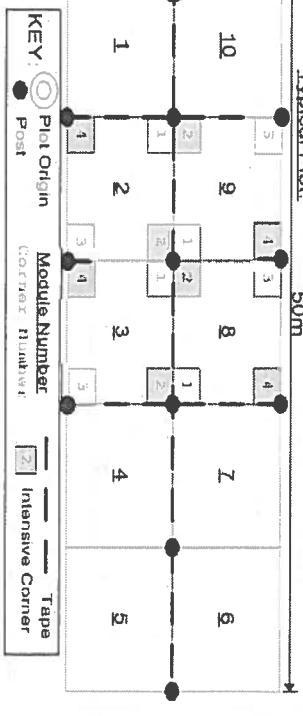
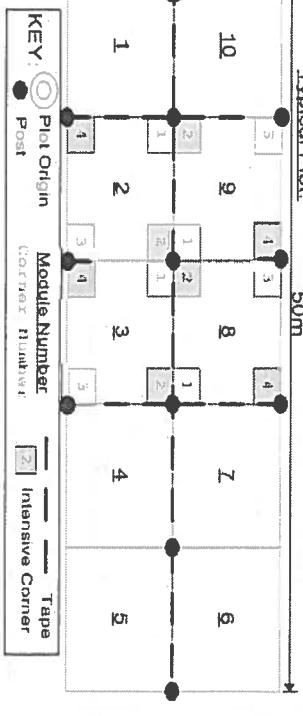
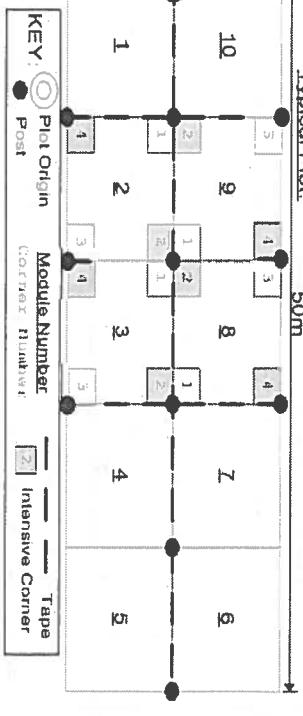
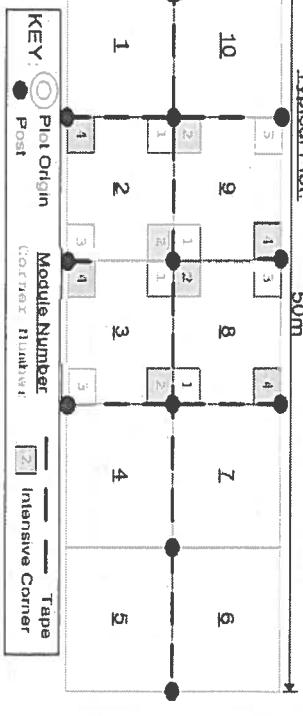
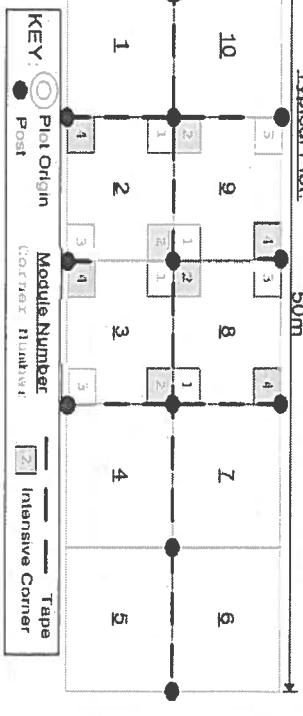
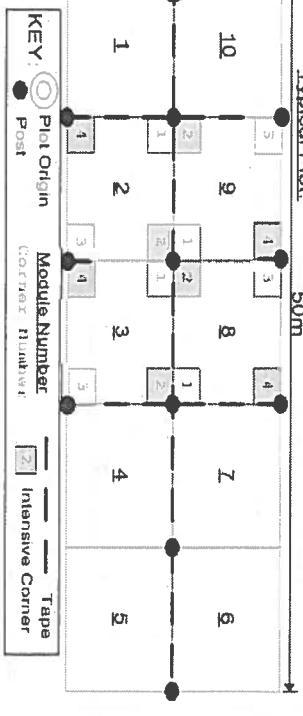
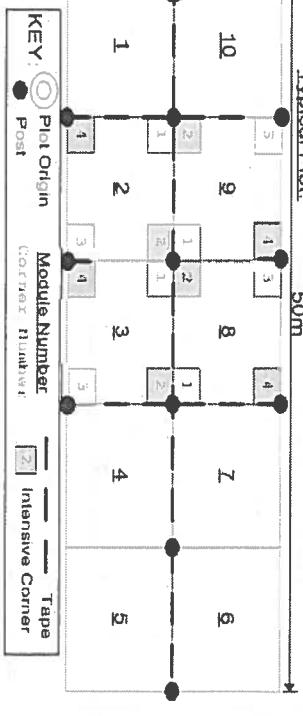
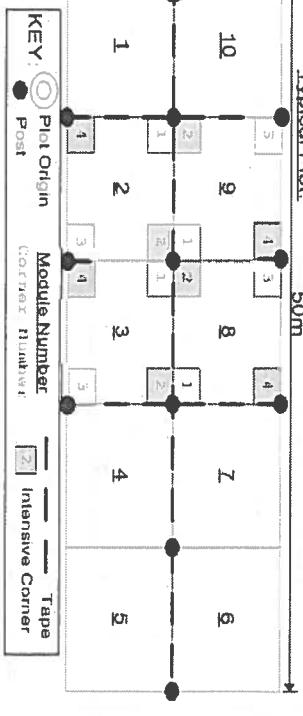
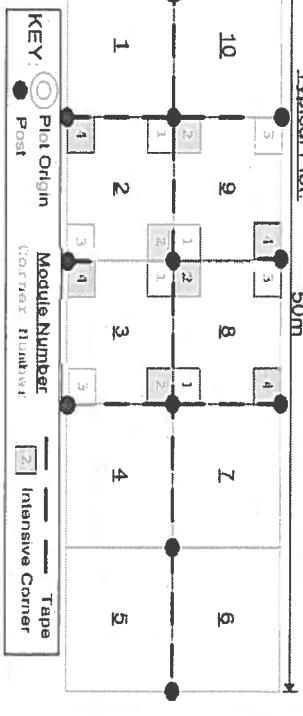
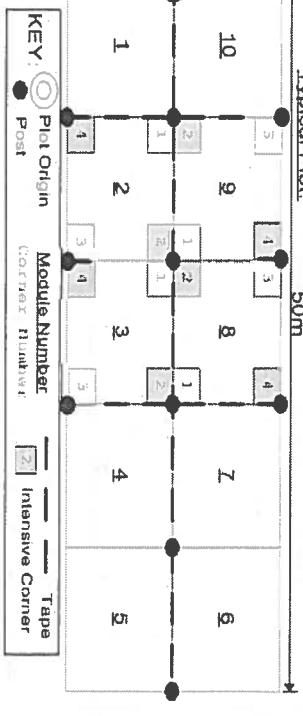
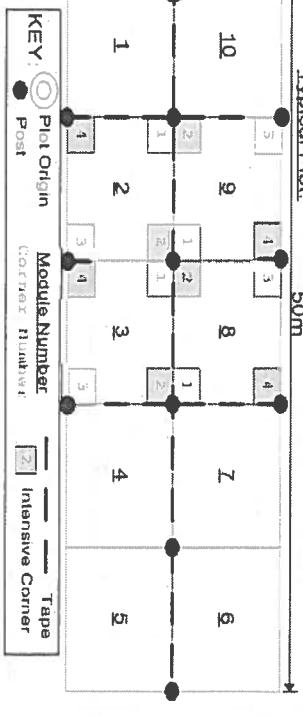
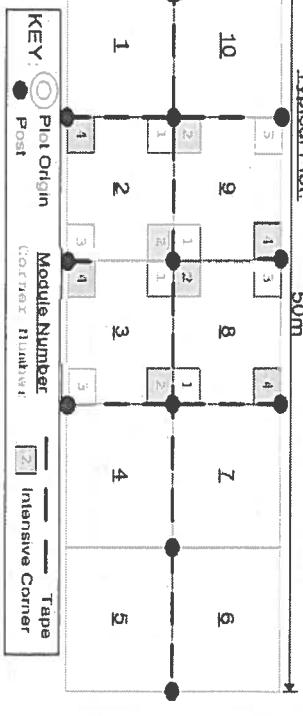
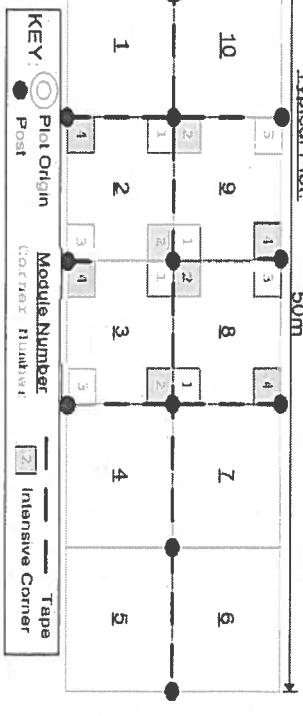
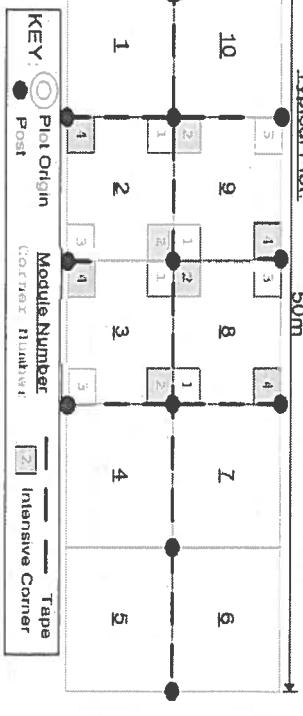
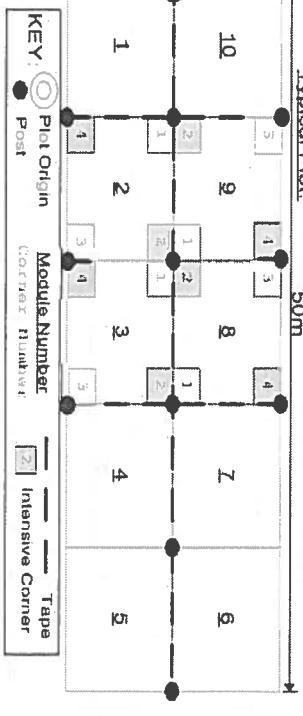
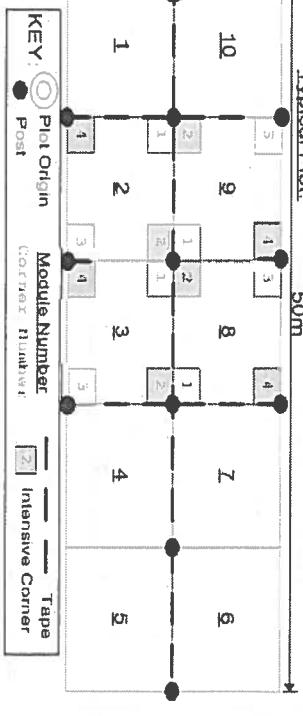
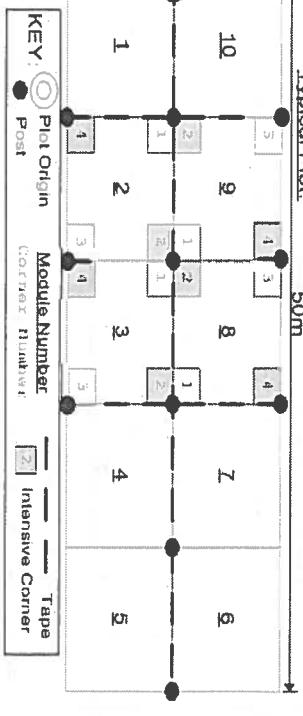
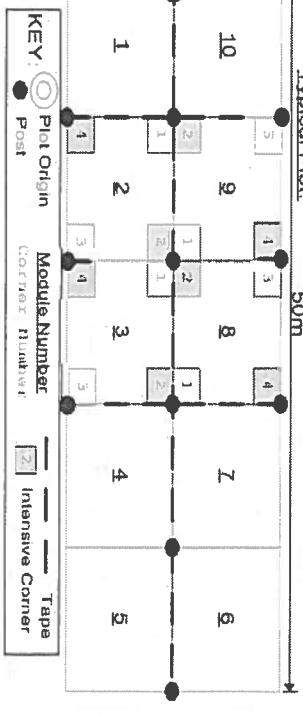
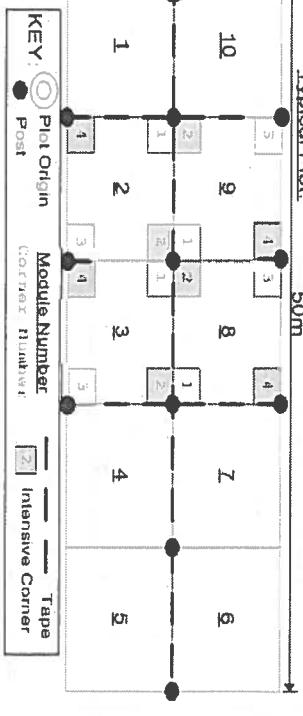
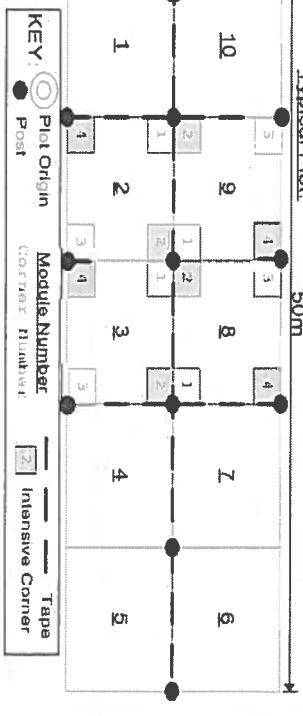
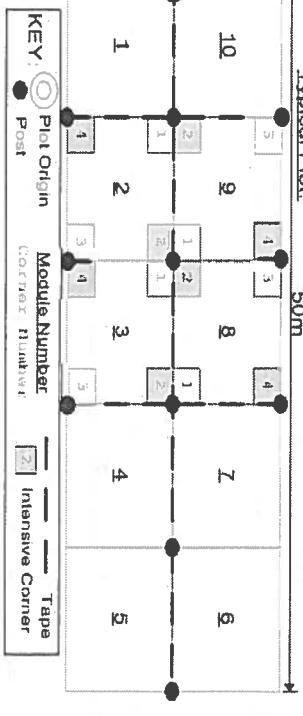
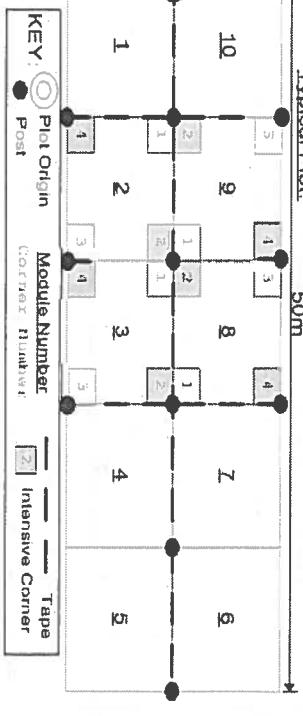
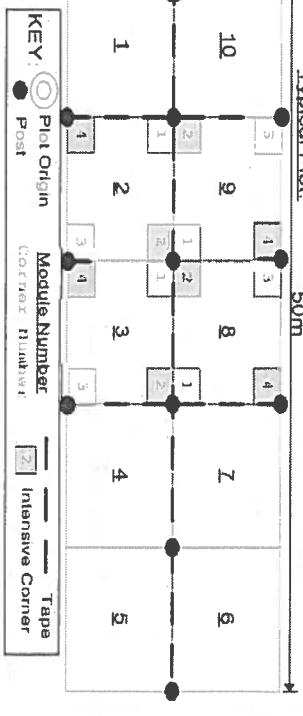
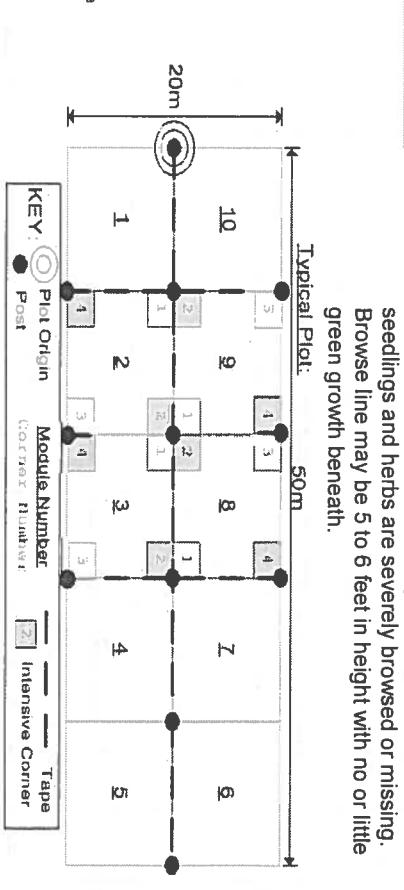
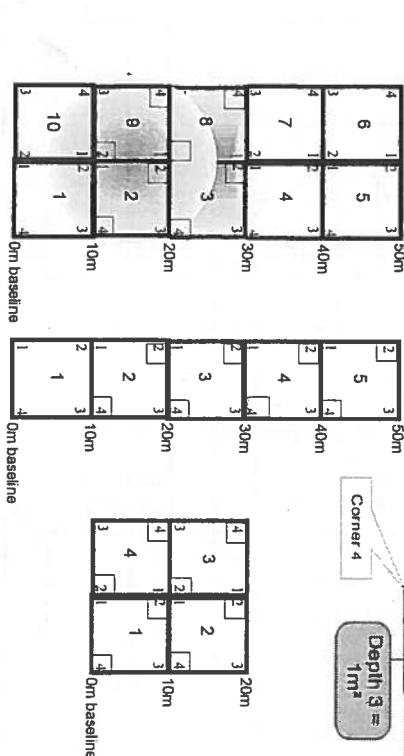
MEDIUM LOW values include evidence of browse at about 10 percent of the stems with no significant impact to plant reproduction evident. In this rating, plants are browsed but preferential species are observed to be reproducing in numbers that appear normal or near-normal in comparison to low browse areas.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

MEDIUM: browse affects greater than 10 percent and less than 25 percent of stems in the 1 m² nested quadrat and intensive module. A browse line is usually not evident or obvious for all classes and species of vegetation, but careful examination may show preferential browse and/or browse lines for some species of plants.

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

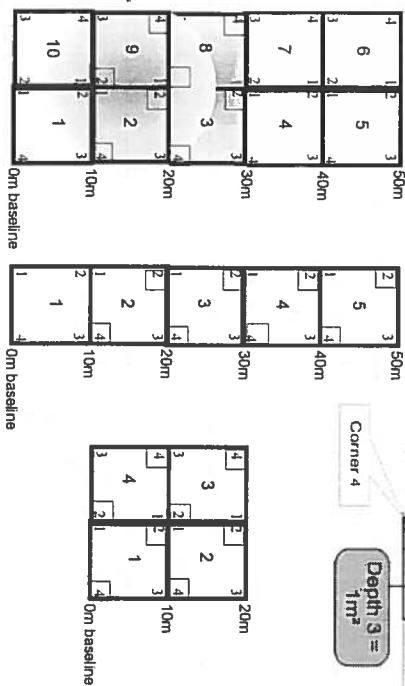
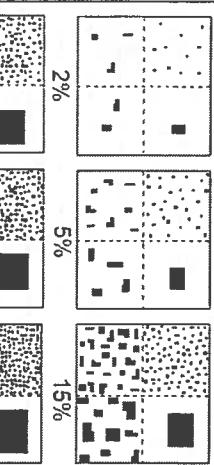
HIGH: greater than 25 percent of the stems of plants in the 1 m² nested quadrat and intensive module AND a browse line is evident.

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



EXAMPLES OF PERCENT OF AREA COVERED

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



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

BROWSE RATING NARRATIVE DESCRIPTION

LOW OR NONE: there is no measurable browse line

AND there are very few or no plants 1-m nested quadrat and intensive module. In general, low values relate to

less than 10 percent, by numbers of stems browsed.

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

MEDIUM: browse affects greater than 10 percent and less than 25 percent of stems in the 1 m² nested quadrat and intensive module. A browse line is usually not evident or obvious for all classes and species of vegetation, but careful examination may show preferential browse and/or browse lines for some species of plants.

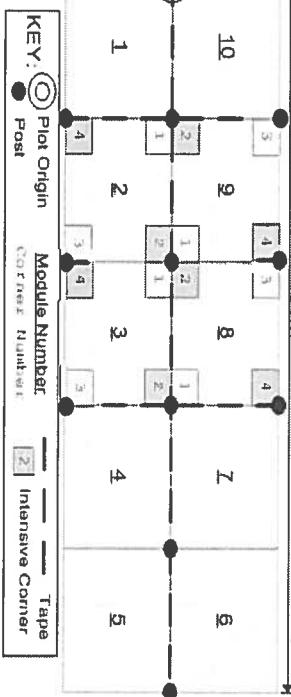
MEDIUM HIGH values include evidence of a browse line and 25 percent of stems browsed with very little

vegetation regeneration evident. In this rating, for some species of plants, reproduction does not appear to occur or it is very severely limited.

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

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

Typical Plot:



CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP

Project Name: 01 SC 2012

Plot No.: 1272

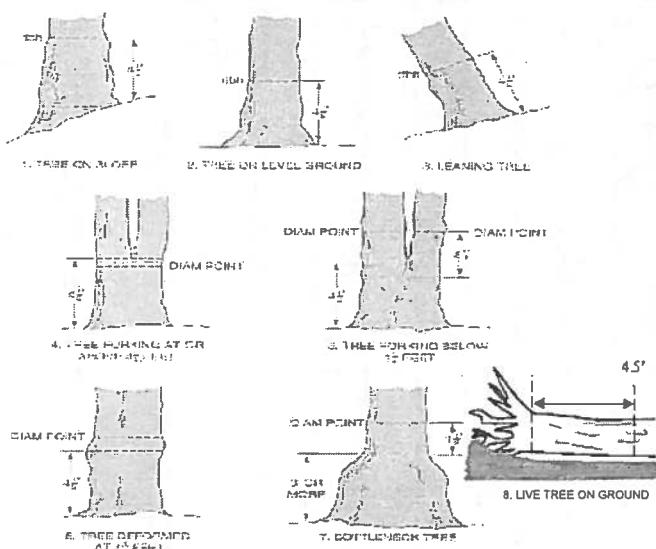
Page: 1 of 4

© Cleveland Metroparks

Explain subsample (additional room on back):

mod #	species	c	voucher#	# stems 0-1.4m browsed	% sub sample	# shrub clumps	size class (cm) woody stems >1.4m										>40 (record each tree)
							1	2	3	4	5	6	7	8	9	10	
1	<i>Lindera benzoin</i>																
1	<i>Lonicera maackii</i>																
1	<i>Berberis thunbergii</i>																
1	Standing dead																
1	<i>Acer saccharum</i>																
1	<i>Ulmus americana</i>																
1	<i>Magnolia acuminata</i>																
1	<i>Ligustrum vulgare</i>																
1	<i>Fagus grandifolia</i>																
1	<i>Liriodendron tulipifera</i>																
✓2	<i>Craatagus sp.</i>																
✓2	Standing dead																
✓2	<i>Acer saccharum</i>																
2	<i>Vitis cordifolia</i>																
2	<i>Fagus grandifolia</i>																
2	<i>Acer rubrum</i>																
2	<i>Lonicera maackii</i>																
✓2	<i>Lindera benzoin</i>																
✓2	<i>Rosa multiflora</i>																
✓3	<i>Acer saccharum</i>																
✓3	Standing dead																
✓3	<i>Fagus grandifolia</i>																
✓3	<i>Acer rubrum</i>																
✓3	<i>Prunus serotina</i>																

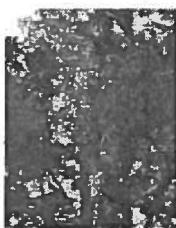
DBH Measurement Rules



Woody Stem Deer Browse

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

Record using the tally system from 1 to 10



1



2



3



4



5

ASH CANOPY CONDITION

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



A

B

C

D

E

ASH CANOPY BREAKUP CONDITION (for dead trees):

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

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

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP

Project Name: PLSC 2012

Plot No.: 1272

Page: 2

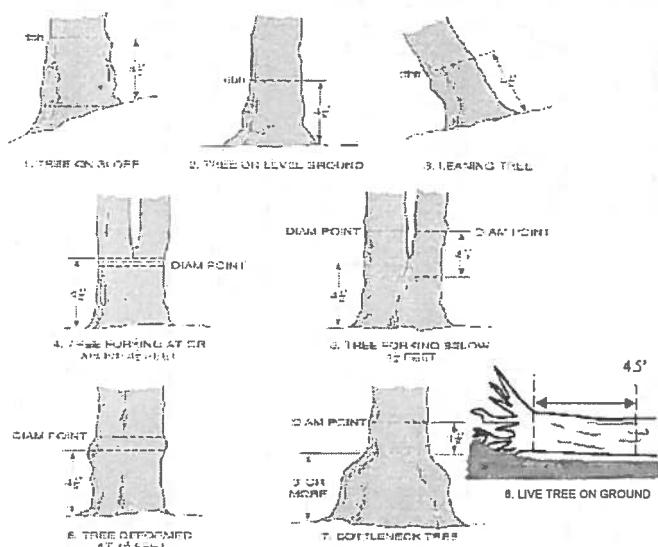
Cleveland Metroparks

Explain subsample (additional room on back):

mod #	species	c	voucher#	# stems 0-1.4m browsed	% sub or super sample	# shrub clumps	size class (cm) woody stems >1.4m										35 - <40 >40 (record each tree)
							1	2	3	4	5	6	7	8	9	10	
3	<i>Quercus rubra</i>																51,5
3	<i>Hamamelis virginiana</i>																
3	<i>Lindera benzoin</i>																
4	<i>Acer saccharinum</i>																
4	<i>Acer rubrum</i>																
4	Standing dead																
4	<i>Acer sac.</i>																
4	<i>Vitis aestivalis</i>																
4	<i>Lindera benzoin</i>																
4	<i>Similar rotundifolia</i>																
4	<i>Acer saccharinum</i>																
5	<i>Acer rubrum</i>																
5	<i>Lonicera mackii</i>																
5	<i>Lindera benzoin</i>																
5	<i>Ligustrum vulgare</i>																
6	<i>Acer rubrum</i>																
6	<i>Acer saccharum</i>																
6	Standing dead																
6	<i>Vitis aestivalis</i>																
6	<i>Lindera benzoin</i>																
6	<i>Rubus occidentalis</i>																
6	<i>Fagus grandifolia</i>																
7	<i>Acer saccharinum</i>																
7	Standing dead																

Measured cut 1.7 meters

DBH Measurement Rules



Woody Stem Deer Browse

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

Record using the tally system from 1 to 10



1



2



3



4



5

ASH CANOPY CONDITION

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



A

B

C

D

E

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CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP

Project Name: P1 SC 2012

Plot No.: 1272

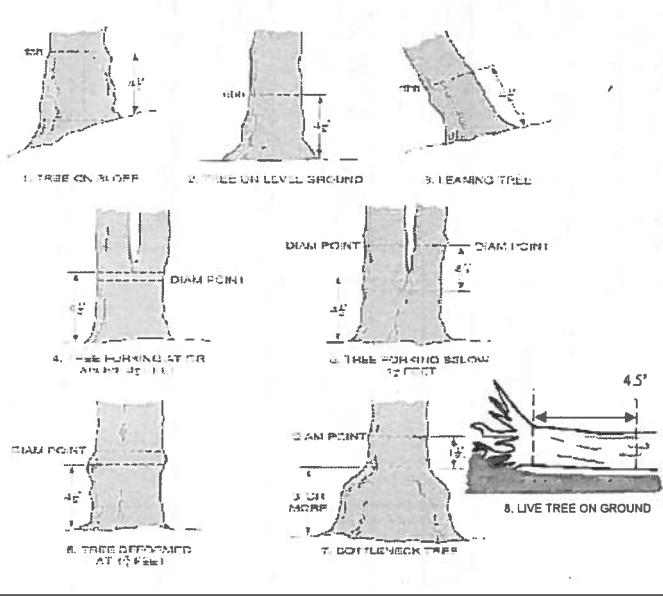
Page: 3 of 4

CLEVELAND METROPARKS

Explain subsample (additional room on back):

mod #	species	c	voucher#	# stems 0-1.4m browsed	% sub sample	# shrub clumps	size class (cm) woody stems >1.4m										
							1	2	3	4	5	6	7	8	9	10	11
7	<i>Lidiera benzoin</i>		10	7		7											>40 (record each tree)
7	<i>Vitis aestivalis</i>																
7	<i>Berberis thunbergii</i>																
7	<i>Rubus allegheniensis</i>																
7	<i>Rosa multiflora</i>																
8	<i>Brunnus serrulata</i>																
8	<i>Acer saccharum</i>																
8	<i>Fraxinus sp.</i>																
8	<i>Smilax rotundifolia</i>																
8	<i>Vitis aestivalis</i>																
8	<i>Acer rubrum</i>																
8	<i>Stenocarpus</i>																
8	<i>Magnolia acuminata</i>																
8	<i>Rosa multiflora</i>																
8	<i>Lindera benzoin</i>																
8	<i>Berberis thunbergii</i>																
9	<i>Acer saccharum</i>																
9	<i>Acer rubrum</i>																
9	<i>Vitis aestivalis</i>																
9	<i>Stenocarpus</i>																
9	<i>Lindera benzoin</i>																
9	<i>Lonicera maackii</i>																
9	<i>Rosa multiflora</i>																
9	<i>Berberis thunbergii</i>																

DBH Measurement Rules



Woody Stem Deer Browse

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

Record using the tally system from 1 to 10



1



2



3



4



5

ASH CANOPY CONDITION

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A

B

C

D

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CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

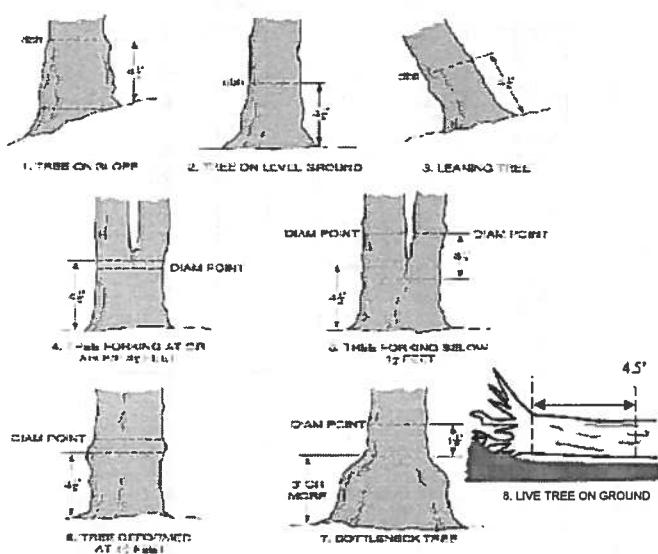
Project Label: PCAP

Project Name: 01 SC 2012

Page: 4 of 4

Explain subsample (additional room on back);

DBH Measurement Rules



Woody Stem Deer Browse

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

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- E: Central stem still standing.

COVER BY STRATA

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

*Very tall shrubs are sometimes included in the tree stratum

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

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

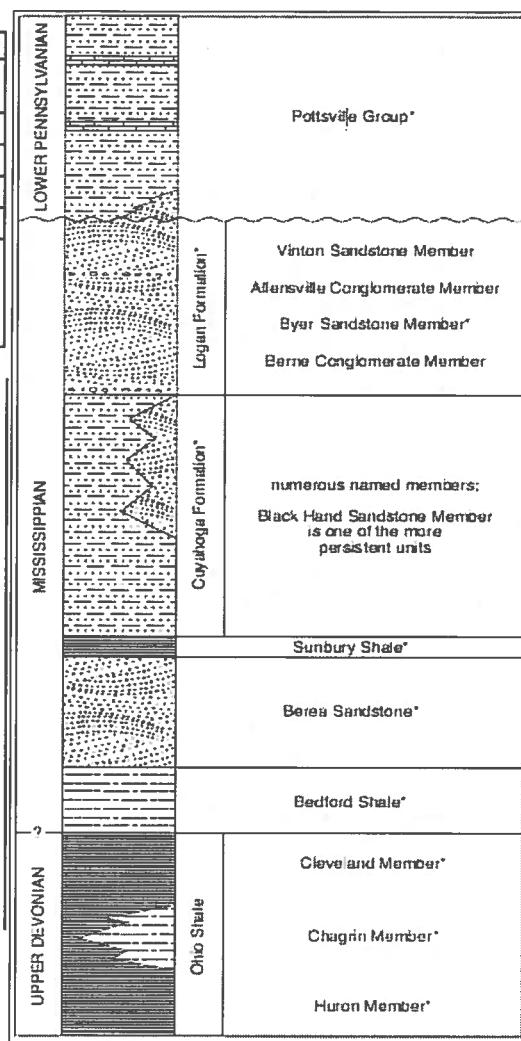
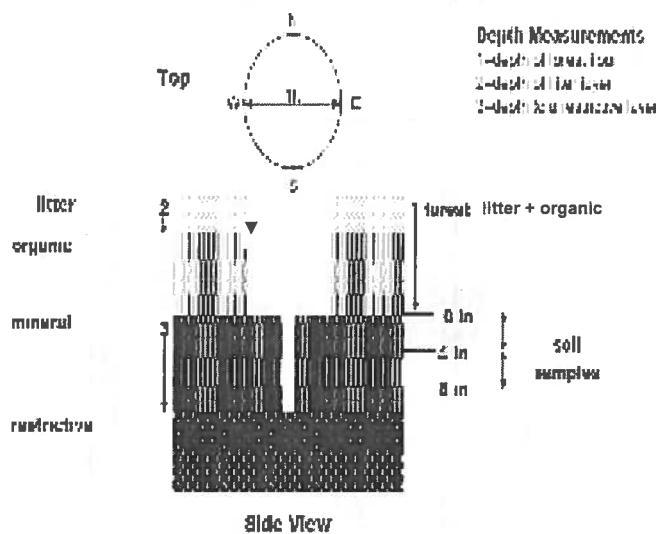


FIGURE 3-20.—Generalized section of Upper Devonian, Mississippian, and Lower Pennsylvanian formations in northeastern Ohio. Asterisks indicate units that are fossiliferous. This composite section represents about 400 meters of rock exposed across the area. The section is not to scale, but the thicknesses indicated are proportional. The term "Waverly" is used in the older literature to refer to Mississippian rocks in Ohio. Some geologists use the European term "Carboniferous," which encompasses the Mississippian and Pennsylvanian Periods of the U.S. Many units have been named within the Cuyahoga Formation, but most units are local and cannot be traced over great distances. The Black Hand Member is a spectacular massive sandstone that is fairly widespread but discontinuous. See Ryd's (1935), Hoover (1960), and Collins (1979) for more information on Mississippian rocks in Ohio. See figure 3-16 for explanation of rock types.

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

Soil pit module #	(one per entire plot)
5 cm	matrix color <u>10YR 2/5</u> moisture color <u>Na</u>
% anisotropy	<u>0</u>
oxid roots	<u>Y</u> <u>N</u>
texture*	<u>1</u>
redox features**	<u>Y</u> <u>N</u>
hyd. cond. ***	<u>1</u> <u>S</u> <u>M</u> <u>D</u>
20 cm	matrix color <u>10YR 3/5</u> moisture color <u>Na</u>
% anisotropy	<u>0</u>
oxid roots	<u>Y</u> <u>N</u>
texture*	<u>1</u>
redox features**	<u>Y</u> <u>N</u>
hydro cond. ***	<u>I</u> <u>S</u> <u>M</u> <u>D</u>

*refer to texture classes on reverse side
 ** e.g. hydrogen sulfide odor, gleying, etc.
 *** Circle one.
 I=indundated S=saturated M=moist D=dry
 Notes: 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 composted	A

Soil Series/Type: Ritman Silt loam
 Soil Series Source: Ohio Soil Survey
 Landform type: Drainage ways,
 Depth to rest Layer 280"

EARTH SURFACE & GROUND COVER

Underlying Earth Surface*	Ground Cover
(Sum = 100%)	Percent
Histsol	<u>0</u>
Mineral Soil	<u>91</u>
Gravel-Cobble*	<u>8</u>
Boulder**	<u>1</u>
Bedrock	<u>0</u>
* Gravel-Cobble = 1/16-1"	Water
**Boulder = > 10 in	Bare Soil
***>5 cm in diameter	Road/Trail
****<5 cm in diameter	Other

Parent Material Till

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

28/3/12

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

Strata	Height Range (in)	Total Cover (%)
Tree	<u>>5</u>	<u>93</u>
Shrub	<u>.5 - 5</u>	<u>43</u>
Herb	<u><.5</u>	<u>18</u>
(Floating)*	-	<u>N/A</u>
(Aquatic)*	-	<u>N/A</u>

>600 x plot size
 > 100 x plot size
 10-100 x plot size
 1-3 x plot size
 < plot size

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

EARTH SURFACE & GROUND COVER

Underlying Earth Surface*	Ground Cover
(Sum = 100%)	Percent
Histsol	<u>0</u>
Mineral Soil	<u>91</u>
Gravel-Cobble*	<u>8</u>
Boulder**	<u>1</u>
Bedrock	<u>0</u>
* Gravel-Cobble = 1/16-1"	Water
**Boulder = > 10 in	Bare Soil
***>5 cm in diameter	Road/Trail
****<5 cm in diameter	Other

Parent Material Till

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

28/3/12

COVER BY STRATA
 Estimate using midpoints of 5, ex: 3, 8, 13 %

STAND SIZE

STAND SIZE

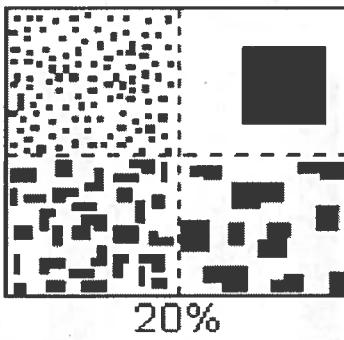
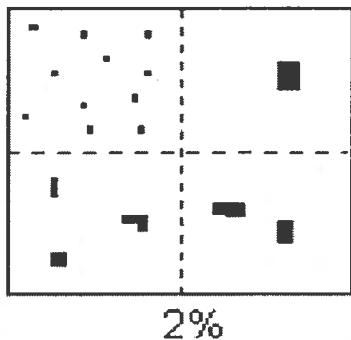
Strata	Height Range (in)	Total Cover (%)
Tree	<u>>5</u>	<u>93</u>
Shrub	<u>.5 - 5</u>	<u>43</u>
Herb	<u><.5</u>	<u>18</u>
(Floating)*	-	<u>N/A</u>
(Aquatic)*	-	<u>N/A</u>

>600 x plot size
 > 100 x plot size
 10-100 x plot size
 1-3 x plot size
 < plot size

SEE BACK OF PAGE FOR TYPICAL STRATA DESCRIPTIONS. STRATA CAN VARY BY COVER TYPE.

PERCENT MOTTLES (USE CLASS CODES):

Class	Code Conv.	Code NASIS	Criteria: % of Surface Area Covered
Few	f	#	< 2
Common	c	#	2 to < 20
Many	m	#	≥ 20



SOIL TEXTURE: Record the code for the soil texture of the 5 cm and 20 cm layers. To estimate texture, collect a soil sample from the appropriate layer and moisten it with water to the consistency of modeling clay/wet newspaper; the sample should be wet enough that all of the particles are saturated but excess water does not freely flow from the sample when squeezed. Attempt to roll the sample into a ball. If the soil will not stay in a ball and has a grainy texture, the texture is either sandy or coarse sandy. If the soil does form a ball, squeeze the sample between your fingers and attempt to form a 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.

0= Organic

1= Loamy

2= Clayey

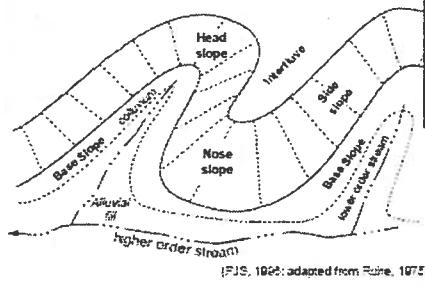
3= Sandy

4= Coarse Sand

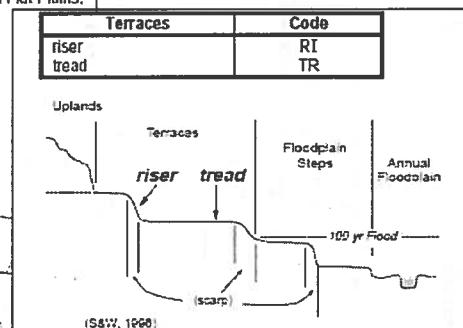
9= Not measured - make plot note

Geomorphic Component - Three-dimensional descriptors of parts of landforms or microfeatures that are best applied to areas. Unique descriptors are available for Hills, Terraces, Mountains, and Flat Plains; e.g., (for Hills) nose slope or NS.

Hills	Code PDP	Code NASIS
interfluve	IF	IF
head slope	HS	HS
nose slope	NS	NS
side slope	SS	SS
base slope	—	BS



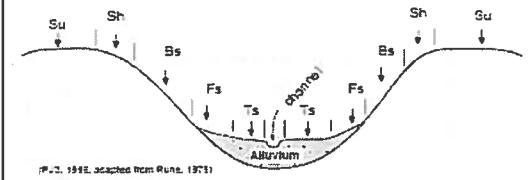
(PJS, 1995; adapted from Riche, 1975)



(SSW, 1990)

Hillslope - Profile Position (Hillslope Position in PDP) - Two-dimensional descriptors of parts of line segments (i.e., slope position) along a transect that runs up and down the slope; e.g., backslope or BS. This is best applied to transects or points, not areas.

Position	Code
summit	SU
shoulder	SH
backslope	BS
footslope	FS
toeslope	TS



(PJS, 1995; adapted from Riche, 1975)

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

UPLAND: Not a wetland. Very rarely flooded.

INTERMITTENTLY/SEASONALLY SATURATED: Dry at least once per year. Surface water is seldom present, but substrate is saturated to surface for extended periods during the growing season.

PERMANENTLY/SEMPERMANENTLY SATURATED: 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 modifier.

OCCASIONALLY FLOODED: Surface water can be present for brief periods during growing season, but not in most years. Often characterizes flood-plain upper terraces.

TEMPORARILY FLOODED: 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 Temporary modifier.

INTERMITTENTLY FLOODED : Substrate is usually exposed, but surface water 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 modifier 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 modifier can be applied to both wetland and non-wetland situations. Equivalent to Cowardin's Intermittently Flooded modifier.

SEMPERMANENTLY FLOODED (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 modifiers.

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

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

CLEVELAND METROPARKS Emerald Ash Borer - *Fraxinus* Sheet

Project Label: PCAP

Project Name: 2012-2012

INTENSIVE MODULES ONLY

TREES $\geq 10\text{cm}$ ONLY

Page: 1 of 2

Baseline								ASH Only		TREES $\geq 10\text{cm}$ ONLY	
Module ID.	Tree	Species	Dead	Voucher #	DBH (cm)	Ht @ DBH	Ash condition	# Dead holes	# Exit holes	Epicormic present	Woodpecker holes
2	1	<i>Fraxinus sp.</i>	c		31.0	3	D	D	D		
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										
	13										
	14										
	15										
	16										
	17										
	18										
	19										
	20										
	21										
	22										
	23										
	24										
	25										

*** Change intensive module numbers when necessary

-

9

8

2

3

N

Map all ash trees $\geq 10\text{cm}$ in each module using Tree ID number

* If Ash Condition scores 5 (dead) provide breakup score (A-E)

Count EAB exit holes $1.25\text{cm}^2 \times 21.5\text{m}$
Woodpecker and epicormic marked present (1) or absent (0)

CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey



Tier 1: Early detection/ Rapid response

		Presence				GPS
		NE	SE	SW	NW	
Microstegium vimineum	Japanese stiltgrass					
Ranunculus ficaria	Lesser Celandine					
Cynanchum louiseae (vine)	Black Swallow-wort					
Butomus umbellatus (wetland)	Flowering Rush					
Heracleum mantegazzianum	Giant Hogweed					

Presence
X: yes

Tier 2: Assess as Needed

		# of Plants				comments
		NE	SE	SW	NW	
Acer platanoides	Norway Maple					
Ailanthus altissima	Tree of Heaven					
Lonicera japonica (vine)	Japanese Honeysuckle		3			
Lythrum salicaria (wetland)	Purple Loosestrife					
Aegopodium podagraria (G-cover)	Bishop's Goutweed					
Celastrus orbiculatus (vine)	Asian Bittersweet				1	
Torilis sp.	Hedgeparsley					
Conium maculatum	Poison Hemlock					
Rhamnus cathartica	Common Buckthorn (shrub)					
Berberis thunbergii	Japanese Barberry (shrub)	3	2	3	3	
Alnus glutinosa	European Alder					
Dipsacus laciniatus	Cut-leaf Teasel					
Elaeagnus umbellata	Autumn Olive (shrub)					
Lonicera maackii	Amur Honeysuckle (shrub)	4	5	5	5	
Euonymus fortunei	Wintercreeper				3	

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

Tier 3: Presence is of Interest

		# of Plants				comments
		NE	SE	SW	NW	
Convallaria majalis (G-cover)	Lily of the Valley					
Coronilla varia (G-cover)	Crown Vetch					
Eleutherococcus pentaphyllus	Five-leaf Aralia (shrub)					
Pachysandra terminalis (G-cover)	Japanese Pachysandra					
Philadelphus coronarius	Mock Orange (shrub)					
Pulmonaria officinalis (G-cover)	Lungwort					
Rubus phoenicolasius	Wineberry					
Iris pseudacorus (wetland)	Yellow Flag Iris					
Ornithogalum umbellatum	Star of Bethlehem					
Viburnum opulus var. opulus	European Cranberry (shrub)					
Viburnum plicatum	Doublefile Viburnum (shrub)					

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

Tier 4: Widespread and abundant

		Presence				comments
		NE	SE	SW	NW	
Alliaria petiolata	Garlic Mustard	3	3	1		
Ligustrum vulgare	Common Privet (shrub)		2	2	2	
L. morrowii, L. tatarica	Bush Honeysuckles (shrub)	1	3	3		
Phalaris arundinacea	Reed Canarygrass					
Phragmites australis (wetland)	Phragmites					
Polygonum cuspidatum	Japanese Knotweed					
Frangula alnus	Glossy Buckthorn (shrub)	1				
Rosa multiflora	Multiflora Rose (shrub)	5	5	5	5	
Typha angustifolia, T. x. glauca	Cattails (wetland)					
Cirsium arvense	Canada thistle					
Dipsacus fullonum	Common Teasel					
Hesperis matronalis	Dame's Rocket					
Vinca minor (G-cover)	Periwinkle			5	5	

Presence
X: yes

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

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (initial): _____

Site ID: PLAP SC 1272

DATE: 07/31/2012

Location:

Digitized by srujanika@gmail.com

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:  		Absent: 	Buffer Plot 2	Canopy Type:  		Absent: 	Buffer Plot 3	Canopy Type:  		Absent: 	
	Leaf Type:  				Leaf Type:  				Leaf Type:  			
Big Trees (>0.3m DBH)												
Small Trees (<0.3m DBH)												
Woody Shrubs, Saplings (0.5m-5m HIGH)												
Woody Shrubs, Saplings (<0.5m HIGH)												
Herbs, Forbs and Grasses												
Bare ground												
Litter, duff												
Rock												
Water												
Submerged Vegetation												

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

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

Industrial Development Stressors

Habitat/Vegetation Stressors

Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag
Oil Drilling	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Forest Clear Cut	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Herbicide Use	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Gas Wells	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Forest Selective Cut	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Mowing/Shrub Cutting	<input type="radio"/>	<input type="radio"/>	<input 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 checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<u>I</u>
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 checked="" type="radio"/>	<input checked="" 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 (Front)

Reviewed by (Initial): _____

Site ID: PCAP SC 201278

DATE: 07/31/2012

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 →	2
	O Plot 1 O Plot 2 O Plot 3	

Buffer Natural Cover Strata

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

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

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

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	0	0	0		Forest Clear Cut	0	0	0		Herbicide Use	0	0	0		
Gas Wells	0	0	0		Forest Selective Cut	0	0	0		Mowing/Shrub Cutting	0	0	0		
Mine (surface)	0	0	0		Tree Plantation	0	0	0		Trails	0	0	0		
Mine (underground)	0	0	0		Tree Canopy Herbivory (INSECT)	0	0	0		Soil Compaction (ANIMAL OR HUMAN)	0	0	0	0	
Military	0	0	0		Shrub Layer Browsed (WILD OR DOMESTIC)	0	0	0		Offroad vehicle damage	0	0	0		
Other: _____	0	0	0		Highly Grazed Grasses (OVERALL <3' HIGH)	0	0	0		Soil erosion (FROM WIND, WATER, OR OVERUSE)	0	0	0		
Other: _____	0	0	0		Recently Burned Forest Canopy	0	0	0		Other: _____	0	0	0		
Other: _____	0	0	0		Recently Burned Grassland (BLACKENED)	0	0	0		Other: _____	0	0	0		

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

Flag	Comments
1	Hawthorn PKWY falls in Plot 1
2	Plot 3 could not be sampled since it fell on Residential Plot
3	GPS pt was taken from plot 2, could not go any further since property
4	Plot 2 fails in "runaway stream"

Use Decimal Degrees; NAD83

Latitude North **41.412** Longitude West **081.43263**

Flag **3**

Location of Coordinates (choose one):

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

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

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 AA CENTER. Indicate the location of the plot coordinates by filling in the appropriate bubble.

PLOT COORDINATES

Flag	1	2	3	Flag	1	2	3	Flag	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"/>	
Giant Salvinia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Perennial Pepperweed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Common Buckthorn	<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"/>	
Polsom Hemlock	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Chenopodium	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Tamarisk	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Mile-A-Minute Weed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Reed 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"/>	Common Reed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Canada Thistle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Leather Sphagnum	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

④ Confirm a filled data bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble

Site ID: **PCAP SC 133** Date: **03/31/2012**

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): _____

Site ID: PCAP SC 1272

DATE: 07/31/2012

Location: <input type="radio"/> AA Center <input type="radio"/> N <input type="radio"/> S <input checked="" type="radio"/> E <input type="radio"/> W	Fill in bubble(s) if plot(s) could not be sampled and flag →
	<input type="radio"/> Plot 1 <input type="radio"/> Plot 2 <input type="radio"/> 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 checked="" type="radio"/> D <input type="radio"/> E		Absent: <input type="radio"/>	Buffer Plot 3	Canopy Type: <input checked="" 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 checked="" type="radio"/> B <input type="radio"/> N		Flag
Big Trees (>0.3m DBH)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Big Trees (>0.3m DBH)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Small Trees (<0.3m DBH)	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Small Trees (<0.3m DBH)	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Woody Shrubs, Saplings (0.5m-5m HIGH)	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Woody Shrubs, Saplings (0.5m-5m HIGH)	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Woody Shrubs, Saplings (<0.5m HIGH)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Woody Shrubs, Saplings (<0.5m HIGH)	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Herbs, Forbs and Grasses	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Herbs, Forbs and Grasses	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Herbs, Forbs and Grasses	<input type="radio"/>	<input checked="" type="radio"/>
Bare ground	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Bare ground	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Bare ground	<input type="radio"/>	<input checked="" type="radio"/>
Litter, duff	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Litter, duff	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Litter, duff	<input type="radio"/>	<input checked="" type="radio"/>
Rock	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Rock	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Rock	<input type="radio"/>	<input checked="" type="radio"/>
Water	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Water	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Water	<input type="radio"/>	<input checked="" type="radio"/>
Submerged Vegetation	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Submerged Vegetation	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Submerged Vegetation	<input checked="" type="radio"/>	<input type="radio"/>

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

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

Industrial Development Stressors				Habitat/Vegetation Stressors											
Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	
Oil Drilling	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Forest Clear Cut	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Herbicide Use	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
Gas Wells	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Forest Selective Cut	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Mowing/Shrub Cutting	<input type="radio"/>	<input type="radio"/>	<input 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 checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" 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 checked="" type="radio"/>	<input checked="" 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)																																																																																																																																																																																																																																															
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Indicate the location of the plot coordinates by filling in the appropriate bubble.</td><td colspan="11"></td> </tr> <tr> <td colspan="12"> <table border="1"> <thead> <tr> <th colspan="3">Flag</th> <th colspan="3">Latitude North</th> <th colspan="3">Longitude West</th> <th colspan="3">Use Decimal Degrees; NAD83</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td>41</td><td>41</td><td>41</td><td>681</td><td>681</td><td>681</td><td>114.450</td><td>114.450</td><td>114.450</td> </tr> </tbody> </table> </td> </tr> <tr> <td colspan="12"> <table border="1"> <thead> <tr> <th colspan="3">Flag</th> <th colspan="3">Comments</th> </tr> </thead> <tbody> <tr> <td colspan="6">Plot 2 and 3 are just off CM property. 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Polson Hemlock	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	Tamarisk	<input type="checkbox"/>	<input type="checkbox"/>	Reed Canary Grass	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																				
Garlic Mustard	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	Himalayan Blackberry	<input type="checkbox"/>	<input type="checkbox"/>	Common Buckthorn	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																				
Giant Salsify	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	Giant Reed	<input type="checkbox"/>	<input type="checkbox"/>	Common Pepperweed	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																				
Yellow Floating Heart	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	Chenopodium	<input type="checkbox"/>	<input type="checkbox"/>	Mile-A-Minute Weed	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																				
Polson Hemlock	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	Common Pepperweed	<input type="checkbox"/>	<input type="checkbox"/>	Reed Canary Grass	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																				
Birdsfoot Trefoil	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	Common Pepperweed	<input type="checkbox"/>	<input type="checkbox"/>	Giant Salsify	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																				
Canada Thistle	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	Chenopodium	<input type="checkbox"/>	<input type="checkbox"/>	Birdsfoot Trefoil	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																																																				
Provide GPS coordinates at the center of the Buffer Plot (#3) at the far end of each Buffer Transect and for the Buffer Plot at the AA CENTER. Indicate the location of the plot coordinates by filling in the appropriate bubble.																																																																																																																																																																																																																																															
<table border="1"> <thead> <tr> <th colspan="3">Flag</th> <th colspan="3">Latitude North</th> <th colspan="3">Longitude West</th> <th colspan="3">Use Decimal Degrees; NAD83</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td>41</td><td>41</td><td>41</td><td>681</td><td>681</td><td>681</td><td>114.450</td><td>114.450</td><td>114.450</td> </tr> </tbody> </table>												Flag			Latitude North			Longitude West			Use Decimal Degrees; NAD83			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	41	41	41	681	681	681	114.450	114.450	114.450																																																																																																																																																																																																												
Flag			Latitude North			Longitude West			Use Decimal Degrees; NAD83																																																																																																																																																																																																																																						
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<table border="1"> <thead> <tr> <th colspan="3">Flag</th> <th colspan="3">Comments</th> </tr> </thead> <tbody> <tr> <td colspan="6">Plot 2 and 3 are just off CM property. Please be aware</td> </tr> </tbody> </table>												Flag			Comments			Plot 2 and 3 are just off CM property. Please be aware																																																																																																																																																																																																																													
Flag			Comments																																																																																																																																																																																																																																												
Plot 2 and 3 are just off CM property. Please be aware																																																																																																																																																																																																																																															

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): _____

Site ID: PCAP SC 1272

DATE: 07 / 31 / 2012

Location: AA Center O N O S O E O W						Fill in bubble(s) if plot(s) could not be sampled and flag →					
						<input type="radio"/> Plot 1 <input type="radio"/> Plot 2 <input type="radio"/> 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 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 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 type="radio"/>	<input checked="" type="radio"/> D <input type="radio"/>	<input type="radio"/> 3 <input type="radio"/> 4	Big Trees (>0.3m DBH)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> 2 <input type="radio"/> 3 <input checked="" type="radio"/> 4	Big Trees (>0.3m DBH)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	Big Trees (>0.3m DBH)	<input type="radio"/>	<input 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"/> 1	<input type="radio"/> 2 <input checked="" type="radio"/> D <input type="radio"/> E	<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	Small 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 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 checked="" type="radio"/> D <input type="radio"/> E	<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-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-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 checked="" type="radio"/> D <input type="radio"/> E	<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 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 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 type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4
Herbs, Forbs and Grasses	<input type="radio"/>	<input checked="" type="radio"/> D <input type="radio"/> E	<input type="radio"/> 2 <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	Herbs, Forbs and Grasses	<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 type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4
Bare ground	<input type="radio"/>	<input checked="" type="radio"/> D <input type="radio"/> E	<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	Bare ground	<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 type="radio"/> 1	<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 checked="" type="radio"/> D <input type="radio"/> E		Litter, duff	<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 type="radio"/> 1	<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 type="radio"/> 1	<input checked="" type="radio"/> D <input type="radio"/> E	<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	Rock	<input type="radio"/>	<input type="radio"/> 1	<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"/> D <input type="radio"/> E	<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	Water	<input 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"/> D <input type="radio"/> E	<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	Submerged Vegetation	<input 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	Flag	Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag
Road - gravel	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Ditches, Channelization	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Pasture/Hay	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Road - two lane	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Dike/Dam/Road/RR Bed (IMPEDE FLOW)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Range	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Road - four lane	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Water Level Control Structure	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Row Crops	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Parking Lot/Pavement	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Excavation, Dredging	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Fallow Field (RECENT-RESTING ROW CROP FIELD)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Golf Course	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Fill/Spill Banks	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Fallow Field (OLD - GRASS, SHRUBS, TREES)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Lawn/Park	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Freshly Deposited Sediment (UNVEGETATED)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Nursery	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Suburban Residential	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Soil Loss/Root Exposure	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Dairy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Urban/Multifamily	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Wall/Riprap	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Orchard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Landfill	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Inlets, Outlets	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Confined Animal Feeding	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Dumping	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Point Source/Pipe (EFFLUENT OR STORMWATER)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Rural Residential	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Trash	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Impervious surface input (SHEETFLOW)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Gravel Pit	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Irrigation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

Industrial Development Stressors				Habitat/Vegetation Stressors										
Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag
Oil Drilling	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Forest Clear Cut	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Herbicide Use	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Gas Wells	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Forest Selective Cut	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Mowing/Shrub Cutting	<input type="radio"/>	<input type="radio"/>	<input 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 checked="" 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

Comments											
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Latitude North 41.41481 Longitude West 081.43306 Use Decimal Degrees; NAD83											
Location of coordinates (choose one): <input checked="" type="checkbox"/> AA CENTER <input type="checkbox"/> N3 <input type="checkbox"/> S3 <input type="checkbox"/> E3 <input type="checkbox"/> W3 <input type="checkbox"/> Nearest practicable location (flag and comment below)											
Flag 											
Provide GPS coordinates at the center of the Buffer Plot (#3) at the far end of each Buffer Transect and for the Buffer Plot at the AA CENTER. Indicate the location of the plot coordinates by filling in the appropriate bubble.											
If Buffer Plot 3 can not be accessed, take the coordinates at the nearest practicable location ALONG THE TRANSECT. This is important because all Buffer Plots are centered on the Buffer Transects and the coordinates will indicate the location of the transect. Fill in the "nearest practicable location" bubble, fill in the flag box, and describe where the coordinates were taken and why in the comment section below. The coordinates of the nearest practicable location can be either placed as close to the center of Plot 3 as possible or at the center of the last accessible Buffer Plot.											

PLOT COORDINATES											
Fill bubble if present - Plot 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> Flag Fill bubble if present - Plot 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> Flag Fill bubble if present - Plot 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> Flag											
Confirm a filled data bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble											
Site ID: PCAP SC 1372 DATE: 07/31/2012											
Form B-1: BUFFER SAMPLE PLOTS - TARGETED ALIEN SPECIES (Back) <small>Revised by (initials):</small>											
<input type="checkbox"/> Confirm a filled data bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble											

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): _____

Site ID: PCAP SC 1272

DATE: 07/31/2012

Location: <input type="radio"/> AA Center <input type="radio"/> N <input type="radio"/> S <input type="radio"/> E <input type="radio"/> W						Fill in bubble(s) if plot(s) could not be sampled and flag →					
<input type="radio"/> Plot 1 <input type="radio"/> Plot 2 <input type="radio"/> Plot 3											

Buffer Natural Cover Strata

Fill in bubbles for all that apply: Canopy Type: D = Deciduous; E = Evergreen. Leaf Type: B = Broadleaf; N = Needle Leaf. Absent: No tree canopy. Strata Section: Fill in appropriate cover class bubble for each strata type for each plot. 0 = Absent; 1 = Sparse(<10%); 2=Moderate(10-40%); 3 = Heavy (40-75%); 4 = Very Heavy (>75%)

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

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

Residential and Urban Stressors				Hydrology Stressors				Agricultural & Rural Stressors							
Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	
Road - gravel	<input type="radio"/>	<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 checked="" 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 checked="" type="radio"/>		Gravel Pit	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Irrigation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		

Industrial Development Stressors				Habitat/Vegetation Stressors											
Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	
Oil Drilling	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Forest Clear Cut	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Herbicide Use	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
Gas Wells	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Forest Selective Cut	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Mowing/Shrub Cutting	<input type="radio"/>	<input type="radio"/>	<input 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 checked="" type="radio"/>	<input checked="" type="radio"/>	<u>12</u>	
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 checked="" type="radio"/>	<input checked="" type="radio"/>		
Military	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Shrub Layer Browsed (WILD OR DOMESTIC)	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" 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.
Explain all flags in comment section on the back of this form

2428168304

FORM B-1: BUFFER SAMPLE PLOTS - TARGETED ALIEN SPECIES (Back)																																																																																																																																																																																											
<p>Site ID: PCR SC 1272 DATE: 03/11/2012</p> <p>Reviewed by (initials):</p> <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> <th colspan="3">Flag</th> <th colspan="3">Fill bubble if present - Plot</th> <th colspan="3">Flag</th> </tr> </thead> <tbody> <tr> <td>Eurasian Watermilfoil</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Purple Loosestrife</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>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>Giant Reed</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Yellow Floating Heart</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Japanese Knotweed</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Common Pepperweed</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></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Chenopodium</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></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Himalayan Blackberry</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Poison Hemlock</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td></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> </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></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Reed Canary Grass</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </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></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></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> </tr> <tr> <td colspan="12"> <p>Provide GPS coordinates at the center of the Buffer Plot (#3) at the far end of each Buffer Transect and for the Buffer Plot at the AA CENTER. 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