

CLEVELAND METROPARKS Plant Community Assessment Program: Quality Control Form



Project Label: PCAP

Plot No: 1399

Date Sampled: 8/26/13

Lead: SJC

Comment required if item answer is NO

Parking/Access outside of Park Boundaries:	<input checked="" type="radio"/> Y <input type="radio"/> N	If yes, write details in Comments section below
Field journals completed	<input checked="" type="radio"/> Y <input type="radio"/> N	
Site sketch made on 1:3000 map?	<input checked="" type="radio"/> Y <input type="radio"/> N	
Check cover page	X-axis Bearing of plot recorded	<input checked="" type="radio"/> Y <input type="radio"/> N
	GPS coords Recorded	<input checked="" type="radio"/> Y <input type="radio"/> N
	North direction recorded	<input checked="" type="radio"/> Y <input type="radio"/> N
	Photographs taken?	<input checked="" type="radio"/> Y <input type="radio"/> N
Plot No., Date agreement on all pages?	<input checked="" type="radio"/> Y <input type="radio"/> N	
Header data completed all pages?	<input checked="" type="radio"/> Y <input type="radio"/> N	
Cover classes recorded in all Intensive modules	<input checked="" type="radio"/> Y <input type="radio"/> N	
Browse Level By Species	<input checked="" type="radio"/> Y <input type="radio"/> N	
Woody stem quality control check	<input checked="" type="radio"/> Y <input type="radio"/> N	
Invasive plant quality control check	<input checked="" type="radio"/> Y <input type="radio"/> N	
Ash trees mapped	<input checked="" type="radio"/> Y <input type="radio"/> N	
Cover by Strata? (confirm cover type)	<input checked="" type="radio"/> Y <input type="radio"/> N	
Soil samples collected with matching plot #.	<input checked="" type="radio"/> Y <input type="radio"/> N	
Vouchers labeled on datasheet with initials and number	<input checked="" type="radio"/> Y <input type="radio"/> N	
Vouchers labeled on collection bag	<input checked="" type="radio"/> Y <input type="radio"/> N	
Pink flags removed	<input checked="" type="radio"/> Y <input checked="" type="radio"/> N	rarely visited, dense
Data sheet QA before leaving site?	<input checked="" type="radio"/> Y <input type="radio"/> N	
Common equipment returned to tub.	<input checked="" type="radio"/> Y <input type="radio"/> N	
Data sheets scanned?	<input checked="" type="radio"/> Y <input type="radio"/> N 9/3	Enter date to left RC
Final data sheets scanned?		Enter date to left
Buffer Widths measured?	<input checked="" type="radio"/> Y <input type="radio"/> N	BB 6-28-13
Web Soil Survey	<input checked="" type="radio"/> Y <input type="radio"/> N	RSE 29 Aug 2013
Voucher Location	Refrigerator	<input checked="" type="radio"/> Y <input type="radio"/> N
(# vouchers collected)	Press (#)	Enter number to left
SJC 272-306	Drier	<input checked="" type="radio"/> Y <input type="radio"/> N
	Identified	<input checked="" type="radio"/> Y <input type="radio"/> N
	Mounted	<input checked="" type="radio"/> Y <input type="radio"/> N
	Thrown away	<input checked="" type="radio"/> Y <input type="radio"/> N

GRTS point verification: Is plot sampleable?

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

Additional Comments:



BRING PINS!

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet																													
GENERAL INFORMATION					LOCATION																								
Project Label:		PCAP			State:		OH County: Cuyahoga																						
Project Name:		<u>Diee 2013</u>			Quadrangle:																								
Plot Name:		<u>Field of Dreams</u>			Local Place Names: Park at LOST Meadows Picnic Area		Landowner: CMF																						
Plot No.:		<u>1399</u>			□ Level 4 (no nested corners sampled)		Date (mm/dd/yyyy): <u>08/26/2013</u>																						
■ Level 5 (nested corners sampled)					End date (if > 1 day): / /																								
Party:		<u>S. Castello</u> <u>A. Bonsuowski</u>			Role**: Plot leader																								
A. Bonsuowski		<u>Woodsy tech</u>			Plot leader																								
C. Lemmo		<u>IC '11</u>																											
*Definitions and values in CM PCAP FOM v. 1.0 and CVS Field Guide.																													
** Roles: Co-leader, Asst. Guide, Owner, Taxonomist, etc.																													
PLOT NOT SAMPLED: <input type="checkbox"/> Other																													
□ Perm. water <input type="checkbox"/> Paved <input type="checkbox"/> Slope <input type="checkbox"/> Safety																													
SAMPLING QUALITY*																													
Effort Level: <input checked="" type="checkbox"/> Very thorough <input type="checkbox"/> Accurate <input type="checkbox"/> Hurried																													
subjective evaluation of how much effort put into sampling. Hurried plots may still provide good data																													
TAXONOMIC ACCURACY																													
<table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <tr> <td style="padding: 2px;">high</td> <td style="padding: 2px;">modera.</td> <td style="padding: 2px;">low</td> <td style="padding: 2px;">not smpl</td> </tr> <tr> <td style="padding: 2px;"><input checked="" type="checkbox"/></td> <td style="padding: 2px;"></td> <td style="padding: 2px;">✓</td> <td style="padding: 2px;">n/a</td> </tr> <tr> <td style="padding: 2px;">vascul.</td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">bryo</td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">lichen</td> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> <td style="padding: 2px;">✓</td> </tr> </table>										high	modera.	low	not smpl	<input checked="" type="checkbox"/>		✓	n/a	vascul.				bryo				lichen			✓
high	modera.	low	not smpl																										
<input checked="" type="checkbox"/>		✓	n/a																										
vascul.																													
bryo																													
lichen			✓																										
Intensive modules: <u>1,2,3,4</u> (EDIT IF MODIFIED)																													
Camera No.: <u>CS</u>																													
Photo Nos.: <u>2670</u>																													
Plot placement: <input checked="" type="checkbox"/> GRTS <input type="checkbox"/> Representative																													
□ Random <input type="checkbox"/> Stratified Random <input type="checkbox"/> Transect component																													
□ Systematic (grid) <input type="checkbox"/> Capture specific feature <input type="checkbox"/> Other																													
Minimum required fields in Bold and Underlined																													
* Definitions and values in CM PCAP FOM v. 1.0 and CVS Field Guide.																													
OVER																													
Herb: Extremely dense with a wide mix of species. <i>Veronica</i> , <i>Ambrasia</i> , <i>Artemesia</i> and <i>Phalaris</i> dominated. Also had copious amounts of <i>Eupatorium rugosum</i> , and a mix of grasses, <i>Agrostis</i> , <i>Polygonum</i> ,																													
Veg. Char.: Canopy - sparse, mostly <i>Fagus grandifolia</i> , sugar maple and some <i>Tsuga canadensis</i> . One <i>Pratanus</i> shading in. Hemlock shrub: One <i>Fagus</i> and one <i>Fagus</i> were in the shrub layer (2m-5m)																													
Rationale: GRTS																													
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Diagram Key: ● Plot origin (0,0) point ○ GPS location point → photo taken, ● location of permanent posts																													
NOTES: Include Layout (any unusual shape details), Location (directions and landscape content), Rationale (why here), and Veg Characterization (description of community dominants, strata, BROWSE). Additional notes in space on back.																													
Layout: 1x5																													
Location: Park at Lost Meadows Picnic Reserve, ridge overlooking Tinker's Creek. Walk along the ridge until you get to the first Horseshoe bend. Take that down into the floodplain and walk ~250 m through the spicelush to plot. (May be easier to take Pleasant Valley trail down to river then cross because getting out on the south side is no fun.)																													
Depth: (1-5): <u>4</u>																													
Coord. Accuracy: <u>50</u> m <input type="checkbox"/> ft <u>2.5</u> + -																													
GPS File Name: <u>1399A</u>																													
Plot size for cover data: <u>.05</u> (hectares)																													
X-axis Bearing of plot: <u>[42]</u> °																													
Break between terrace 14																													
BETWEEN TERRACE 14																													
original GRTS																													
OXBOW																													
Tarned																													
tall nettle																													
BEWARE!																													

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

Project Name: OIBe2013

Plot No.: 1309

Page 2 of 2

MODIFIED NATURE RESERVE CLASS*

CODE (on separate form): L-01

Fit= Conf=

COMMUNITY NAME: Affected Flood Plain

HOMOGENEITY

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

HYDROLOGIC REGIME*

- | | |
|--|---|
| <input checked="" type="checkbox"/> Upland (seldom flooded) | <input type="checkbox"/> Intermittently flooded |
| <input type="checkbox"/> Intermittently/seasonally saturated (seldom flooded) | <input type="checkbox"/> Semipermanently flooded |
| <input type="checkbox"/> Permanently/Semipermanent saturated (dry <1/yr, seldom flooded) | <input type="checkbox"/> Permanently flooded |
| <input type="checkbox"/> Occasionally flooded (<1/yr) | <input type="checkbox"/> Tidal/Seiche flooded daily |
| <input type="checkbox"/> Temporarily flooded | <input type="checkbox"/> Tidal/Seiche flooded monthly |
| | <input type="checkbox"/> Tidal/Seiche flooded irregular (e.g. wind, storms) |
| | <input type="checkbox"/> Unknown |

(by default unless plot is a wetland)

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

Decided to set up between two drainage areas, one closer to the river is a more heavily used oxbow, the one up against the ridge a rarely used oxbow. Deciphering huge dumps of Ambrosia versus Artemesia was a bit problematic based the "opposite at bottom" rule. Also some of it had put out flower heads which helped determine Ragweed. Grasses were everywhere and I'm worried I underestimated the amount of Canna, Agrostis, and Poa since only a few of each were fruiting. Browse on hedges and other woody's for the most part.

		DISTURBANCES					
		type*	severity**	yrs ago	% of plot	description	
Human	<u>L</u>			<u>0</u>	<u>100</u>	trash	
Natural							
Fire							
Cut							
Animal	<u>M</u>			<u>0</u>	<u>100</u>	deer/bear	
Other							

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

Current Land Use: CMF

Former Land Use: UNK

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

Project Label: PCAP

Project name: OIBe 2013

Page 1 of 6

Total modules: 5

Intensive modules: 4 Plot configuration: 1x5

Plot area (ha): .05



**Cleveland
Metroparks**

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

Estimate for each intensive module:

%open water

%unvegetated open water

%unveg. litter (bare soil)

%unveg. litter (bare litter)

R

R

mod corner mod corner

depth cov depth cov

depth cov depth cov depth cov depth cov depth cov depth cov depth cov

depth cov depth cov depth cov depth cov depth cov depth cov

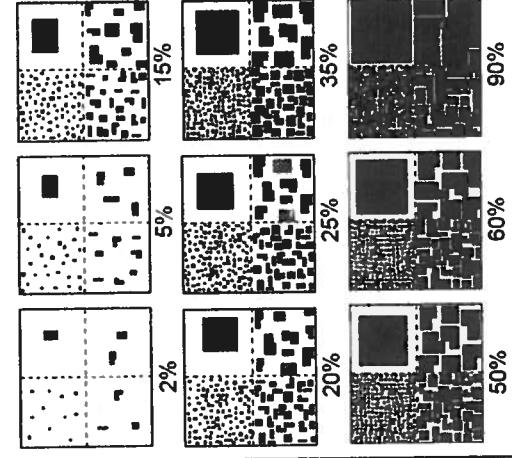
depth cov depth cov depth cov depth cov depth cov

Strata - Cov. entire plot

T	S	H	(F)	(A)	Br	Species	C	Voucher #	mod	corner																	
						Acer sp. (seedling)	4	3 4	3 2 4	4 2 2	4 2 2	4 2 2	4 2 2	4 2 2	4 2 2	4 2 2	4 2 2	4 2 2	4 2 2	4 2 2	4 2 2	4 2 2	4 2 2	4 2 2	4 2 2		
						Prunus serotina	4	2	2 2	4 2 2	4 2 2	4 2 2	4 2 2	4 2 2	4 2 2	4 2 2	4 2 2	4 2 2	4 2 2	4 2 2	4 2 2	4 2 2	4 2 2	4 2 2	4 2 2		
						Fagus grandifolia	4	7 3	4 8 2	4 2 2	4 2 2	4 2 2	4 2 2	4 2 2	4 2 2	4 2 2	4 2 2	4 2 2	4 2 2	4 2 2	4 2 2	4 2 2	4 2 2	4 2 2	4 2 2		
						Tsuga canadensis	4	6	3 5	2 3	1 3	1 3	1 3	1 3	1 3	1 3	1 3	1 3	1 3	1 3	1 3	1 3	1 3	1 3	1 3	1 3	
						Polygonatum multiflorum	3	5	2 3	2 2 4	1 4	1 4	1 4	1 4	1 4	1 4	1 4	1 4	1 4	1 4	1 4	1 4	1 4	1 4	1 4	1 4	1 4
						Mitchella repens	3	3	2 3	2 2 4	1 3	1 3	1 3	1 3	1 3	1 3	1 3	1 3	1 3	1 3	1 3	1 3	1 3	1 3	1 3	1 3	1 3
						Erythronium americanum	3	2	3 2	3 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2
						Euonymus obvatus	3	2	3 2	3 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2
						Unknown monochroa	3	2	3 2	3 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2
						Toxicodendron radicans	3	2	3 2	3 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2
						Alliaria petiolata	3	2	3 2	3 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2
						Ulmus sp. (Seedling)	3	2	3 2	3 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2
						Ulmus americana	3	2	3 2	3 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2
						Fraxinus pennsylvanica	3	2	3 2	3 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2
						Eupatorium rugosum	3	2	3 2	3 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2
						Impatiens sp.	3	2	3 2	3 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2
						Acer saccharum	2	2	2 2	2 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2
						Vitis sp. (seedling)	2	2	2 2	2 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2
						Lindera benzoin	2	2	2 2	2 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2
						Leucia virginica	2	2	2 2	2 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2
						Aster sp. #1	2	2	2 2	2 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2
						Pilea pumila	2	2	2 2	2 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2
						Unknown sp. #1	2	2	2 2	2 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2
						Desmodium sp.	2	2	2 2	2 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2
						Brechites hieracifolia	2	2	2 2	2 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2
						Scisafas albidum	2	2	2 2	2 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2

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.



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.

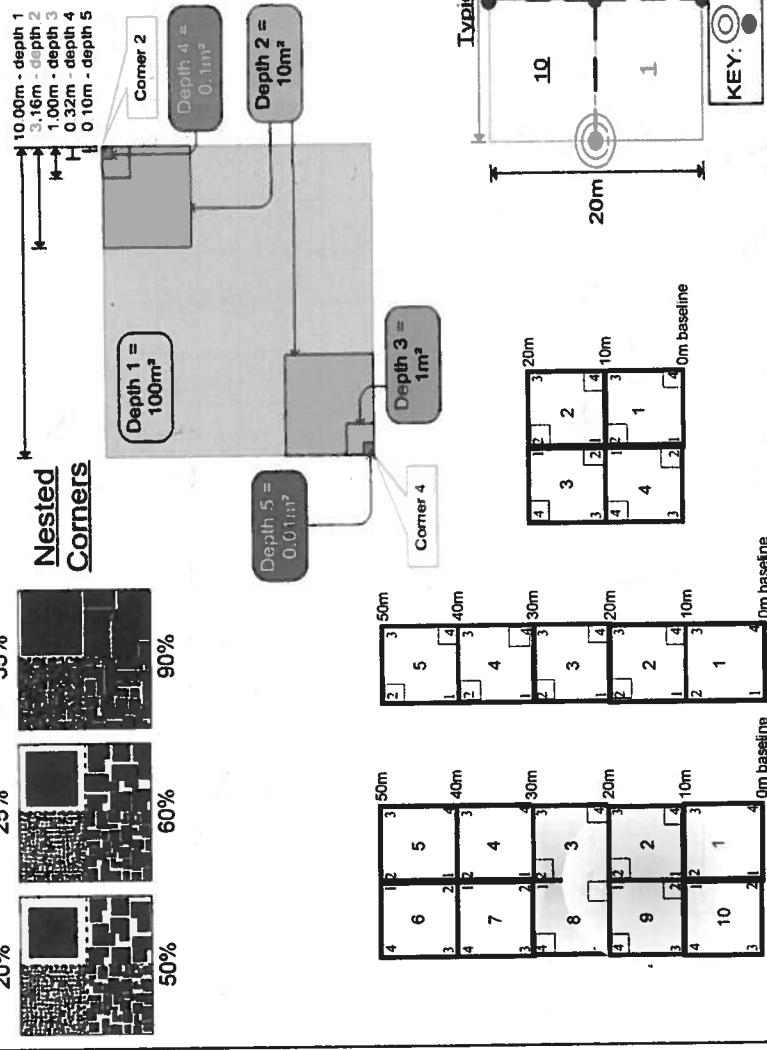
MEDIUM LOW values include evidence of browse at about 10 percent of the stems with no significant impact to plant reproduction evident. In this rating, plants are browsed but preferential species are observed to be reproducing in numbers that appear normal or near-normal in comparison to low browse areas.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

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



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

Project Label: PCAP

Project name: DIBE 2013

Page 2 of 6

Total modules: 5

Intensive modules: 4

Plot configuration: (X)

Plot area (ha): .05



**Cleveland
Metroparks**

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

Estimate for each intensive module:

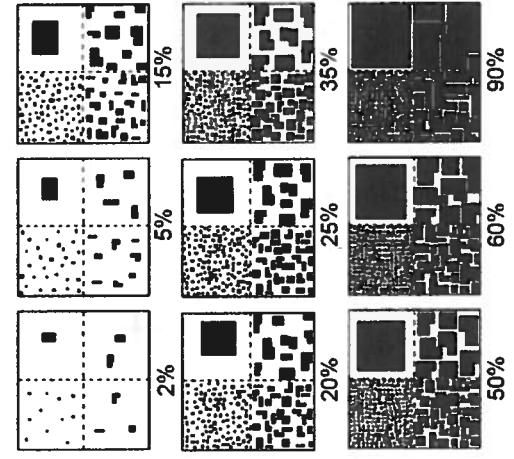
mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner
1	4	1	2	2	4	2	2	3	4	3	2	4	4	4	2	R	R		
depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov
%open water	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
%unvegetated open water	1																		
%unveg. ground (bare soil)	1																		
%unveg. litter (bare litter)	1																		

Strata - Cov. entire plot

T	S	H	(F)	(A)	Br	Species	c	Voucher #	depth	cov										
7						<i>Verbesina alternifolia</i>	2		2	4	3	2	4	4	4	2	R	R		
4						<i>Tussilago farfara</i>	1		1	1	1	1	1	1	1					
						<i>Asterataea sp. #1</i>	2		4	2	2	4	2	4	4					
						<i>Panicum sp. (no repro)</i>	2		4	2	1	2	4	4	4					
						<i>Tiarella cordifolia</i>	2		4	2	1	2	4	4	4					
						<i>Solidago rugosum</i>	2		4	3										
						<i>Solidago arkansensis</i>	2		4	3										
						<i>Dianthus effusus</i>	2		4	2	1	2	2	2	2					
						<i>Thelypodia cylindrica</i>	2		4	2	2	2	4	3	1	2				
						<i>Thelypodia integrifolia</i>	2		4	2	1	1	2	2	2	2				
						<i>Platanthera sp. macrocarpum</i>	1		4	2	1	1	2	2	2	2				
						<i>Unknown dicot #2 (no repro)</i>	2		3	1										
						<i>Carex sp. #1 (no repro)</i>	2		3	2										
						<i>Carex sp. #2 (no repro)</i>	2		4	3										
						<i>Phalaris arundinacea</i>	2		4	2	2	2	4	4	2	3	2	4	4	
						<i>Sanicula sp. (no repro)</i>	2		3	5	3	6	3	2	4	7	3	4	4	
						<i>Unknown dicot #3 (catkin)</i>	1		3	1	2	2	2	2	2	2	2	2	2	
						<i>CS-2658</i>	2		3	2										
						<i>CS-2659</i>	2		3	2										
						<i>CS-276</i>	2		3	2	2	2	3	2						
						<i>Artemesia sp.</i>	2		3	2										
						<i>Geum canadense</i>	2		3	2										
						<i>Carex sp. #3 (whipplea)</i>	2		3	2										
						<i>Polygonum virginianum</i>	2		3	2	3	2	2	2	2	2	2	2	2	
						<i>Viola sp.</i>	2		2	2	2	2	2	2	2	2	2	2	2	

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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.

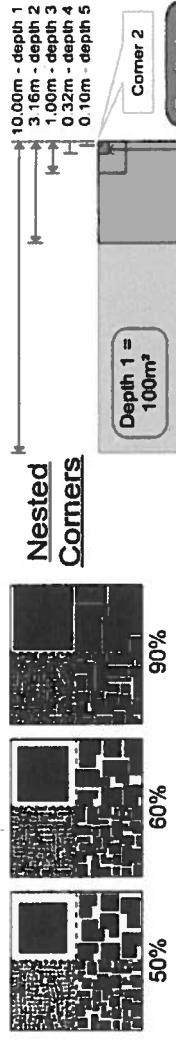
MEDIUM HIGH values include evidence of a browse line and 25 percent of stems browsed with very little vegetation regeneration evident. In this rating, for some species of plants, reproduction does not appear to occur or it is very severely limited.

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.

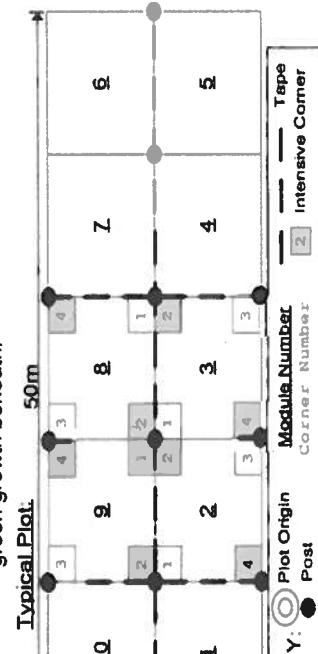
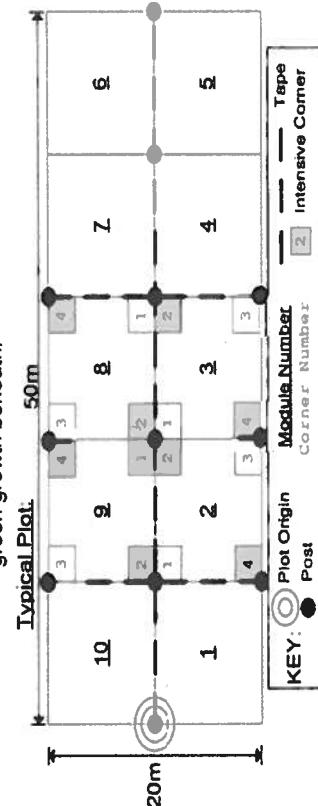
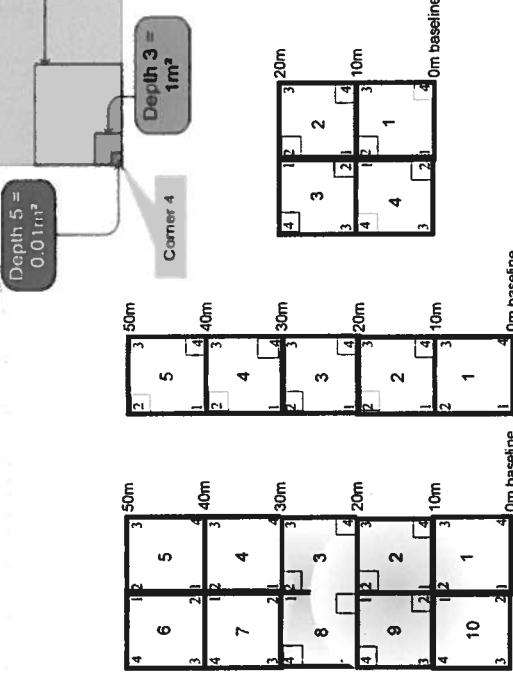
VERY HIGH values include extensive browse conditions, where the browse line is very evident **AND** almost all seedlings and herbs are severely browsed or missing.

Browse line may be 5 to 6 feet in height with no or little green growth beneath.

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



Nested Corners



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

Project Label: PCAP

Plot no.: 1399

Page 3 of 6

Total modules: 5

Intensive modules: 4

Plot configuration: 1x5

Plot area (ha): .05

in color
normal
is Drury



Cleveland
Metroparks

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

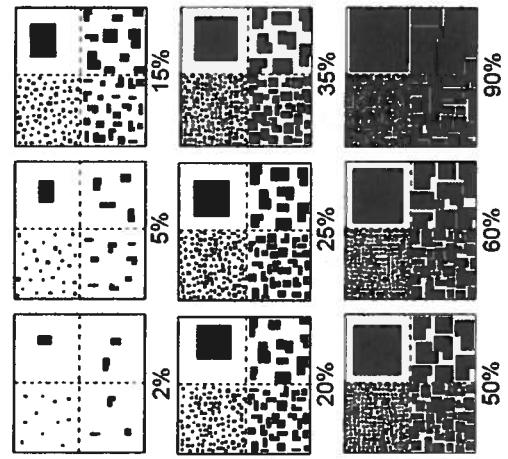
Strata - Cov. entire plot

T	S	H	(F)	(A)	Br	Species	c	Voucher #	depth	cov																		
2	2				2	Oxalis stricta			2	2	2	2	2	2	2	2	2	2	2	2	1	2						
2	2				2	Unknown dicot #4		CS-2660	2	2	2	2	2	2	2	2	2	2	2	2	1	2						
4	4				4	Unknown dicot #4		CS-2660	1	3	3	4	3	3	3	3	3	3	3	3	2	3	3	3	3	3	3	3
2	2				2	Unknown dicot #4		CS-2660	1	3	3	4	3	3	3	3	3	3	3	2	3	3	3	3	3	3	3	
2	2				2	Unknown dicot #4		CS-2660	1	3	3	4	3	3	3	3	3	3	3	2	3	3	3	3	3	3	3	
4	4				4	Elymus sp. #2		SC-2781	1	2	2	1	2	2	2	2	2	2	2	2	3	2	3	2	3	2	3	2
4	4				4	Rubus occidentalis		SC-2781	1	2	2	1	2	2	2	2	2	2	2	3	3	2	3	2	3	2	3	2
2	2				2	Unknown dicot #5		CS-2661	1	2	2	2	2	2	2	2	2	2	2	3	2	3	2	3	2	3	2	
4	4				4	Lysimachia nummularia		SC-2781	1	2	2	3	2	4	6	3	4	6	3	4	4	2	4	4	3	4	4	3
4	4				4	Palicourea sp. #2		SC-2781	1	2	2	3	2	4	4	2	3	2	4	4	2	4	4	3	4	4	3	
2	2				2	Carex sp. #4		SC-2781	1	2	2	3	2	4	4	2	3	2	4	4	2	3	2	4	4	3	4	
4	4				4	Elymus sp. #3		SC-279	1	2	2	3	2	4	4	2	3	2	4	4	2	3	2	4	4	3	4	
2	2				2	Elymus hystrix		SC-280	1	2	2	3	2	4	4	2	3	2	4	4	2	3	2	4	4	3	4	
2	2				2	Agrostis sp.		SC-281	1	2	2	3	2	4	4	2	3	2	4	4	2	3	2	4	4	3	4	
2	2				2	Elymus villosus		SC-282	1	2	2	3	2	4	4	2	3	2	4	4	2	3	2	4	4	3	4	
2	2				2	Poa sp. Agrostis stolonifera		SC-283	1	2	2	3	2	4	4	2	3	2	4	4	2	3	2	4	4	3	4	
1	1				1	Carastum vulgaris			2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	
2	2				2	Parthenocissus quinquefolia			1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	
2	2				2	Urtica dioica			1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	
1	1				1	Duerus sp. (seedling)			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
2	2				2	Ducus carota			1	1	1	1	1	1	1	1	1	1	1	1	2							
1	1				1	Unknown dicot sp.			1	1	1	1	1	1	1	1	1	1	1	1	2							
1	1				1	Elymus virginicus		CS-2662	1	1	1	2	1	2	1	2	1	2	1	2	1	3	2	3	2	3	2	3
5	5				5	Elymus virginicus		SC-284	1	3	3	4	3	2	3	2	1	3	2	3	2	3	2	3	2	3	2	3
2	2				2	Rosa multiflora			1	3	3	4	3	2	3	2	1	3	2	3	2	3	2	3	2	3	2	
2	2				2	Grevillea sp.			1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	
2	2				2	Geum sp.			1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	
2	2				2	Liriodendron tulipifera			1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	
2	2				2	Garrya sp. #5 (no repro)			1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	

Combined
SRE
11-14-13

EXAMPLES OF PERCENT OF AREA COVERED

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



BROWSE RATING NARRATIVE DESCRIPTION

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

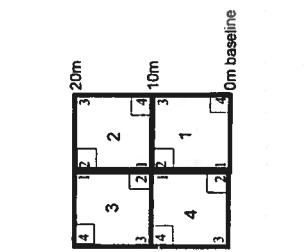
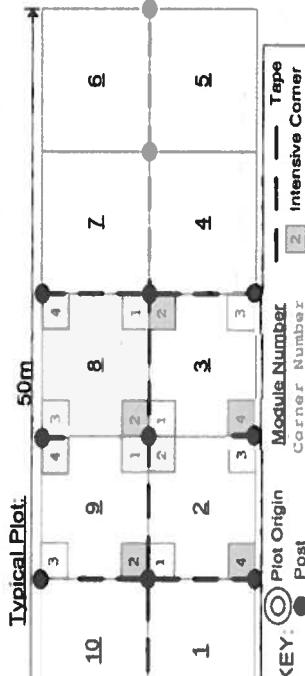
MEDIUM LOW values include evidence of browse at about 10 percent of the stems with no significant impact to plant reproduction evident. In this rating, plants are browsed but preferential species are observed to be reproducing in numbers that appear normal or near-normal in comparison to low browse areas.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

MEDIUM: browse affects greater than 10 percent and less than 25 percent of stems in the 1 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.

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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.



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

Project Label: PCAP

Project name: 01B2e2013

Page H of C

Total modules: 5

Intensive modules: 4 Plot configuration: 1x5

Plot area (ha): .05



**Cleveland
Metroparks**

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

Estimate for each intensive module:

mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner
1	4	1	2	2	4	2	3	4	3	2	4	4	4	2	R	R			
depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov
1		1		1		1		1		1		1		1					
%unvegetated open water																			
%unveg. ground (bare soil)	1		1		1		1		1		1		1		1		1		1
%unveg. litter (bare litter)	1		1		1		1		1		1		1		1		1		1

Strata - Cov. entire plot

T	S	H	(F)	(A)	Br	Species	c	Voucher #	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth
						Dactylus glomerata	X	SAC-285	1	4	2	3	2	3	2	3	3	2	
						Scirpus atrovirens			2	1	2	1	2	1	2	1	2	1	
						Bromus sp.			1	1	1	1	1	1	1	1	1	1	
						Rhus sp.		SAC-1118-13	1	1	1	1	1	1	1	1	1	1	
						Chrysanthemum cristata	X	SAC-286	1	2	1	2	1	2	1	2	1	2	
						Bunias tenue			1	2	1	2	1	2	1	2	1	2	
						Bidens sp.			1	1	1	1	1	1	1	1	1	1	
						Lnk-fern #1	X	SAC-288	1	1	1	1	1	1	1	1	1	1	
						Cryptotaenia canadensis	X	SAC-289	1	2	4	2	2	2	2	2	2	2	
						Clethrum sp.		CS-2655	1	2	2	1	2	1	2	1	2	1	
						Prunella vulgaris	X	SAC-290	1	2	4	2	1	2	1	2	1	2	
						Itak-dicot #9		Enicetum	1	2	4	2	1	2	1	2	1	2	
						Konicera mackii			1	2	2	1	2	1	2	1	2	1	
						Unk dicot #8		Anglica trifolia	CS-2663	4	1	3	1	3	1	3	1	3	
						Unk mon #4		Festuca picta	X	SAC-291	2	2	2	2	2	2	2	2	
						Unk dicot #9		Polygonum	X	CS-2666	2	1	4	1	4	1	4	1	
						Smilax rotundifolia			1	1	2	2	1	2	2	1	2	2	
						Carex sp. #7 (no repro.)			2	2	2	2	2	2	2	2	2	2	
						Unk mon #5 (no repro.)			2	2	1	2	1	2	1	2	1	2	
						Athyrium filix-femina			2	2	1	2	1	2	1	2	1	2	
						Adiantum pedatum			2	2	3	2	3	2	3	2	3	2	
						Cicarea lutetiana			2	2	3	2	3	2	3	2	3	2	
						Sanicula sp. #2	X	Regia	SAC-292	1	1	1	1	1	1	1	1	1	
						Unk dicot #10		Fragaria sp?	CS-2667	2	1	2	1	2	1	2	1	2	
						Unk dicot #11			2	2	1	2	1	2	1	2	1	2	
						Tilia americana			2	2	3	2	3	2	3	2	3	2	

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.



50%



25%



60%



90%

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.

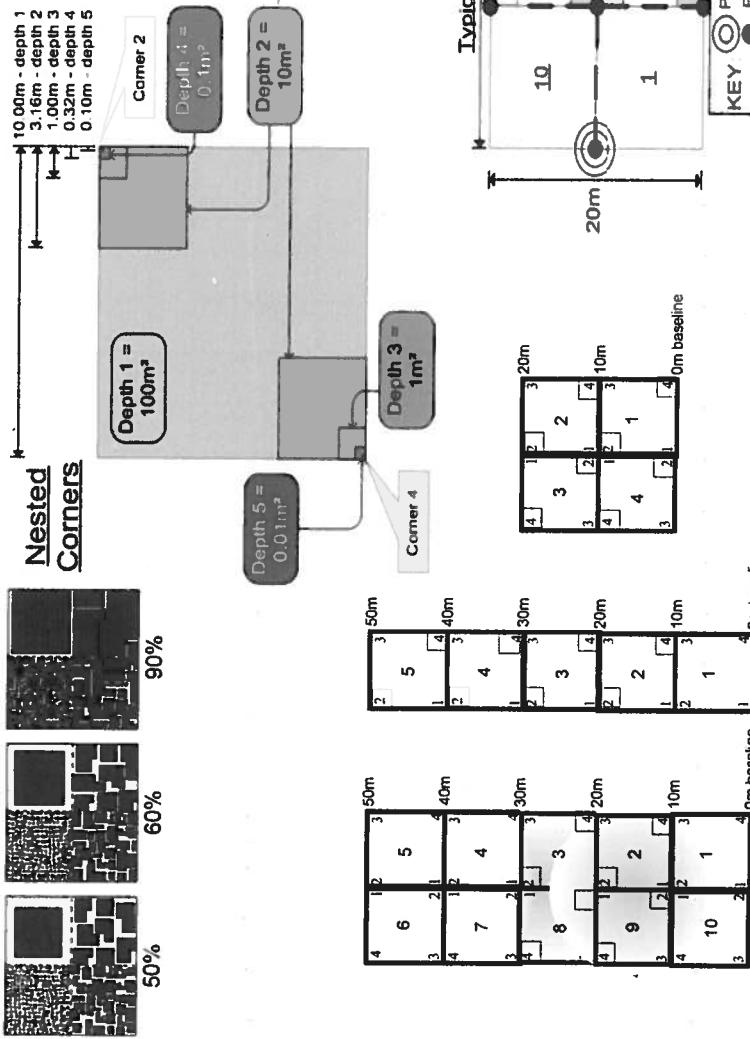
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MEDIUM: browse affects greater than 10 percent and less than 25 percent of stems in the 1 m² nested quadrat and intensive module. A browse line is usually not evident or obvious for all classes and species of vegetation, but careful examination may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



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

Project Label:

PCAP

Project name: CLEPCAP 2013

Page 5 of 6

Plot no.: 1319

Total modules: 5

Intensive modules: 4 Plot configuration: 1x5

Plot area (ha): .05



Cleveland
Metroparks

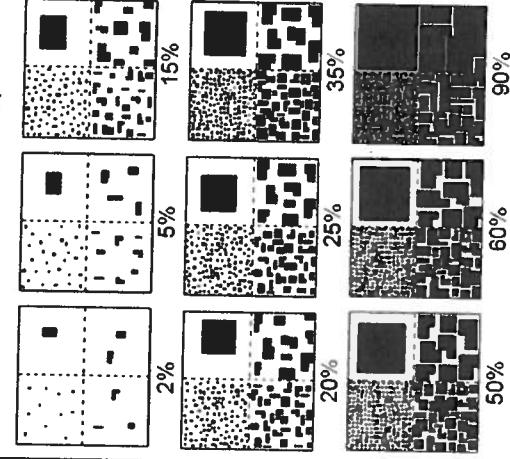
Br = Browse Level. Use cover classes to
describe amount of browse per species over
entire plot

Strata - Cov. entire plot	T	S	H (F) (A)	Br	Species	c	Estimate for each intensive module:												
							mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	
							depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth
	1	1	1	1	<i>Crataegus sp.</i>	1	4	1	2	2	3	4	3	2	4	1	4	2	R
	2	2	2	2	<i>Gaultheria sp.</i>	2	1	X	SJC-293	2	2	1	2	3	2	2	1	2	R
	2	2	2	2	<i>Mitchella diphylla</i>	2	1	2	2	1	2	1	2	3	2	2	1	2	R
	2	2	2	2	<i>Eupatorium perfoliatum</i>	2	1	2	2	1	2	1	2	3	2	2	1	2	R
	2	2	2	2	<i>Berberis thunbergii</i>	2	1	2	2	1	2	1	2	3	2	2	1	2	R
	2	2	2	2	<i>Maianthemum canadense</i>	2	1	2	2	1	2	1	2	3	2	2	1	2	R
	2	2	2	2	<i>Carix sp. #8</i>	2	1	X	SJC-295	2	2	1	2	3	2	2	1	2	R
	2	2	2	2	<i>Lak firs</i> #2	2	1	X	Athyrium filix-femina	2	2	1	3	3	2	2	1	2	R
	2	2	2	2	<i>Carex sp. #9 (nerepro.)</i>	2	1	X	SJC-296	2	2	1	3	3	2	2	1	2	R
	2	2	2	2	<i>Rigustrum vulgare</i>	2	1	2	2	1	2	1	2	3	2	2	1	2	R
	1	1	1	1	<i>Kobelia sibirifica</i>	1	1	X	SJC-2668	1	2	1	2	3	2	2	1	2	R
	1	1	1	1	<i>Thlaspi arvense</i>	1	1	X	SJC-11-6-13	1	2	1	2	3	2	2	1	2	R
	1	1	1	1	<i>Rhamnus frangula</i>	1	1	X	SJC-11-6-13	1	2	1	2	3	2	2	1	2	R
	4	4	4	4	<i>Rubus pensylvanicus</i>	4	1	2	2	1	2	1	2	3	2	2	1	2	R
	4	4	4	4	<i>Unknown dicot</i> #12	4	1	X	SJC-2669	1	2	1	2	3	2	2	1	2	R
	2	2	2	2	<i>Vitis sp. riparia</i>	2	1	X	SJC-297	1	2	1	2	3	2	2	1	2	R
	1	1	1	1	<i>Agromonia sp. pubescens</i>	1	1	X	SJC-298	1	2	1	2	3	2	2	1	2	R
	2	2	2	2	<i>Solidago flexicaulis</i>	2	1	X	SJC-11-6-13	1	2	1	2	3	2	2	1	2	R
	2	2	2	2	<i>Aerobicia officinalis</i>	2	1	X	SJC-299	1	2	1	2	3	2	2	1	2	R
	2	2	2	2	<i>Veronica sp. (no repn.)</i>	2	1	X	SJC-299	1	2	1	2	3	2	2	1	2	R
	2	2	2	2	<i>Thalictrum pubescens</i>	2	1	X	SJC-11-6-13	1	2	1	2	3	2	2	1	2	R
	2	2	2	2	<i>Veronica montana</i>	2	1	X	SJC-299	1	2	1	2	3	2	2	1	2	R
	2	2	2	2	<i>Veronica urticifolia</i>	2	1	X	SJC-299	1	2	1	2	3	2	2	1	2	R
	2	2	2	2	<i>Cirsium arvense</i>	2	1	X	SJC-300	1	2	1	2	3	2	2	1	2	R
	7	7	7	7	<i>Ambrosia artemisiifolia</i>	7	1	X	SJC-300	1	2	1	2	3	2	2	1	2	R

combined
11-14-13
SJC

EXAMPLES OF PERCENT OF AREA COVERED

The following graphic can be used for various data elements to determine amount of quantity. NOTE: Within any given box, each quadrant contains the same total area covered just different sized objects.



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

BROWSE RATING NARRATIVE DESCRIPTION

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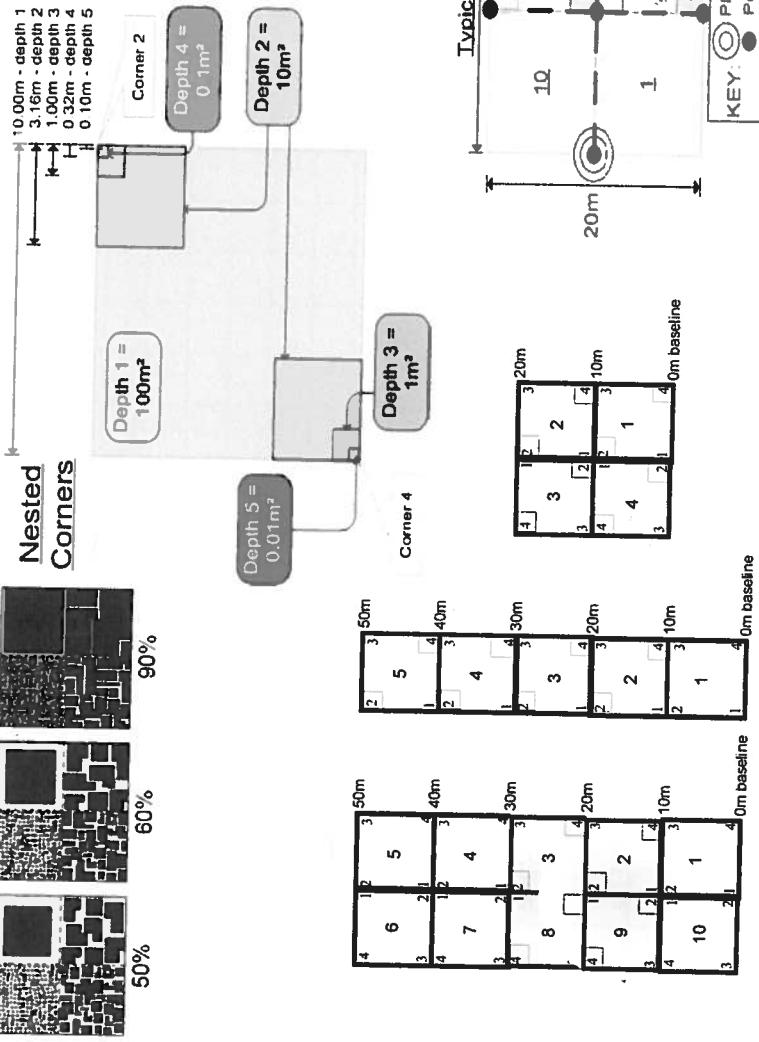
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CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet 2a

Project Label: PCAP Project name: OIBe 2013 Plot no.: 1399

Page 6 of 6

Total modules: 5 Intensive modules: 4 Plot configuration: 1x5 Plot area (ha): .05



Cleveland
Metroparks

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

Estimate for each intensive module:

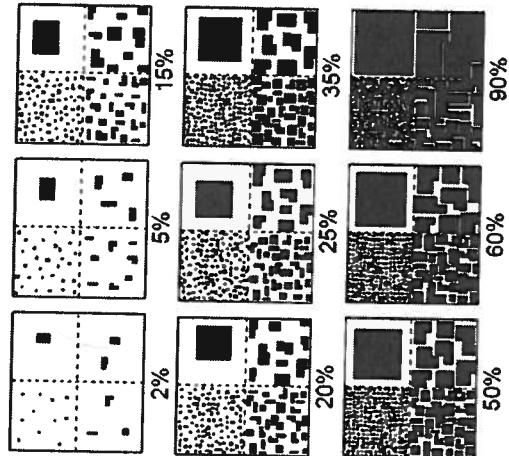
% unvegetated open water	mod	corner												
% unvegetated ground (bare soil)	1	1	1	1	1	1	1	1	1	1	1	1	1	1
% unvegetated litter (bare litter)	1	1	1	1	1	1	1	1	1	1	1	1	1	1

depth cov depth cov

T	S	H	(F)(A)	Br	Species	C	Voucher #	depth	cov															
2	2	lanceolate -		lvs. opp. dark	<i>Hackelia virginiana</i>	etm	1-SC-13	1	2	2	4	2	2	3	4	3	2	4	4	4	4	2	R	R
2	1				<i>Stellaria media</i> L.	L	SC-301																	
2	2	Nettle?			<i>Urtica dioica</i> L.	#3	Dopkins	X																
4	1	<i>Urtica dioica</i> var. Urtica urens			<i>Glechoma hederacea</i>		SC-11-6-13																	
2	1				<i>Urtica dioica</i> L.	L	SC-303																	
1	2	greyi?			<i>Ranunculus sp.</i>		RE 11-14-12																	
2	1	greyi?			<i>Carex sp.</i>	#1	SC-304																	
1	1	greyi?			<i>Brachythecium acutum</i>		CS-267H																	
1	1	greyi?			<i>Brachythecium acutum</i>		CS-267H																	
1	1	greyi?			<i>Brachythecium acutum</i>		CS-267H																	
1	1	greyi?			<i>Platanus occidentalis</i>		31																	
4	2	lanceolate -			<i>Corlus sp.</i>																			
2	2	lvs. opp. dark			<i>Brunnichia rotundifolia</i>		CS-2673,4																	
2	1	lvs. dicot #17			<i>Phytolacca americana</i>		SC-305																	
2	2	lvs. dicot #17			<i>Solanum dulcamara</i>																			
1	2				<i>Polygonum sp.</i>		SC-306																	
2	2	Lept. lvs.			<i>Leptoglossus sp.</i>		CS-2675,6																	
2	2	Unknown dicot #18			<i>Saponaria officinalis</i>		CS-2677,8																	
1	2	Igoria ffranckis																						

EXAMPLES OF PERCENT OF AREA COVERED

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



BROWSE RATING NARRATIVE DESCRIPTION

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

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

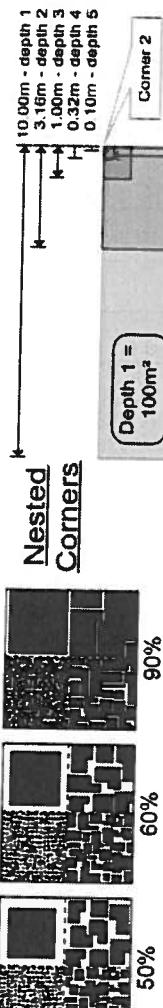
MEDIUM: browse affects greater than 10 percent and less than 25 percent of stems in the 1 m² nested quadrat and intensive module. A browse line is usually not evident or obvious for all classes and species of vegetation, but careful examination may show preferential browse and/or browse lines for some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

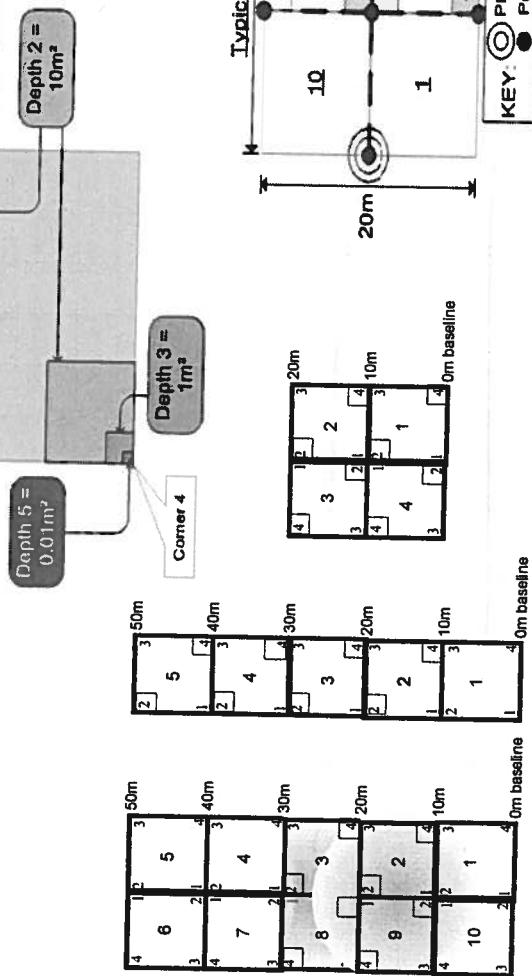
HIGH: greater than 25 percent of the stems of plants in the 1 m² nested quadrat and intensive module AND a browse line is evident.

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.

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



90% 60% 50%



CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP

Project Name: Oldeado

Plot No.: 1399

Page: 1 of 2

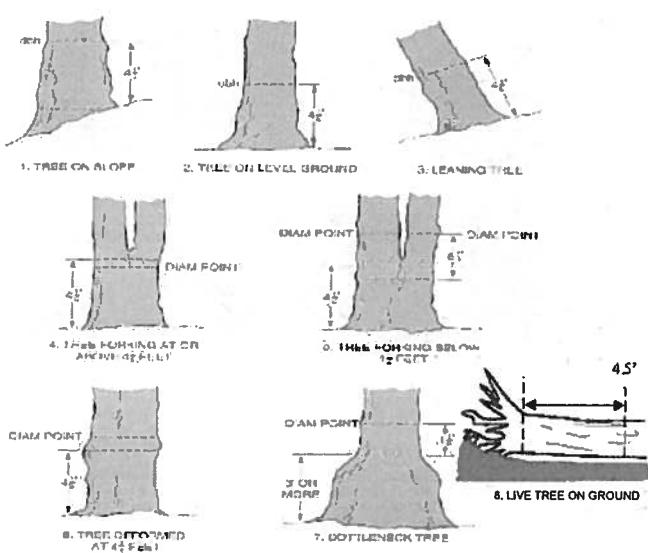
© Cleveland Metroparks

Explain subsample (additional room on back):

mod #	species	c voucher#	# stems 0-1.4m browsed	% sub or super sample	# shrub 0<1	size class (cm) woody stems >1.4m										>40 (second each tree)
						1	2	3	4	5	6	7	8	9	10	
1	FAGUS grandifolia	••	••			•	••			•						
1	Standing dead															
1	Fraxinus pennsylvanica	•														
1	Lindera benzoin	••														
1	ROSA multiflora	•														
1	Standing dead															
2	Fagus grandifolia	•														
2	BERRYES THUNBERGII	••														
2	Linodendron vulgare	••														
2	Lindera benzoin	••														
1	Rubus occidentalis	•														
2	Rubus occidentalis	•														
3	Lindera benzoin	••														
3	LONICERA MACKII	•														
3	Rubus occidentalis	••														
3	Fagus grandifolia	•														
4	BERRYES THUNBERGII	••														
4	Rubus occidentalis	••														
4	Fagus grandifolia	••														
4	Lindera benzoin	••														
5	Fagus grandifolia	••														
5	Lindera benzoin	••														
5	Tsuga canadensis															
5	Standing dead															

43.9
68.5
66.9

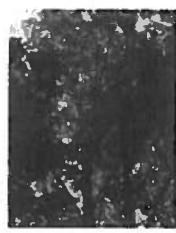
DBH Measurement Rules



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)

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

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP

Project Name: 01 Be 2013

Plot No.: 1399

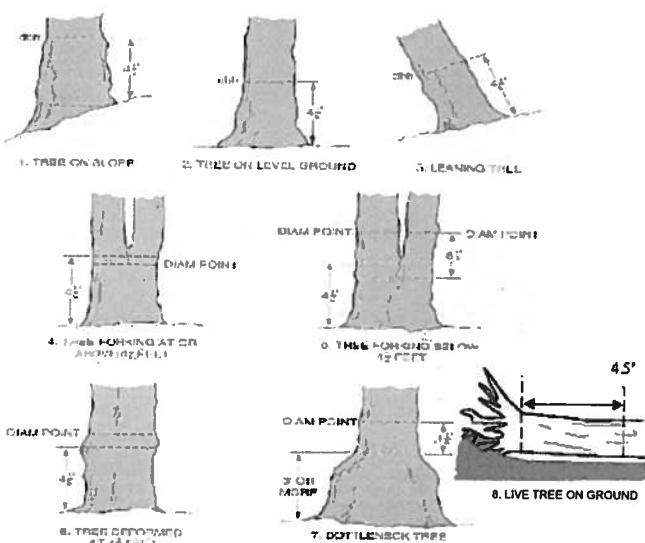
Page: 2 of 2

 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										>40 (record each tree)
						1	2	3	4	5	6	7	8	9	10	
5	<i>Rachicentrus quinquefolia</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 Emerald Ash Borer - *Fraxinus* Sheet
 Project Label: PCAP Project Name: 8/18/2013

INTENSIVE MODULES ONLY TREES $\geq 10\text{cm}$ ONLY
 Plot No.: 1399 Date: 8-26-13

Page: 1 of 2

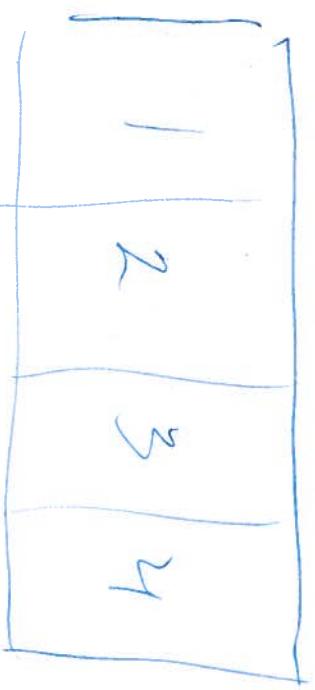
Module ID.	Tree ID.	Species	DBH cm	Voucher #	DBH cm	Ht @ DBH	Ash condition	ASH Only		
								# Dead holes	# Exit holes	Epicormic present
1		No AS†								
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										

Baseline

*** Change intensive module numbers when necessary

<input checked="" type="checkbox"/>	No AS†	<input checked="" type="checkbox"/>
2		3

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 FAB exit holes: 1.25m² x 21.5in
 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					
Lythrum salicaria (wetland)	Purple Loosestrife					
Aegopodium podagraria (G-cover)	Bishop's Goutweed				2	5/5e-203
Celastrus orbiculatus (vine)	Asian Bittersweet					
Torilis sp.	Hedgeparsley					
Conium maculatum	Poison Hemlock					
Rhamnus cathartica	Common Buckthorn (shrub)					
Berberis thunbergii	Japanese Barberry (shrub)	1	1	1	1	
Alnus glutinosa	European Alder					
Dipsacus laciniatus	Cut-leaf Teasel					
Elaeagnus umbellata	Autumn Olive (shrub)					
Lonicera maackii	Amur Honeysuckle (shrub)	1			1	
Euonymus fortunei	Wintercreeper					

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	1				small patch
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	2	2	3	2	
Ligustrum vulgare	Common Privet (shrub)	1		1		
L. morrowii, L. tatarica	Bush Honeysuckles (shrub)			1		
Phalaris arundinacea	Reed Canarygrass	2	2	3	4	
Phragmites australis (wetland)	Phragmites					
Polygonum cuspidatum	Japanese Knotweed			1		
Frangula alnus	Glossy Buckthorn (shrub)	1				
Rosa multiflora	Multiflora Rose (shrub)	2		1		
Typha angustifolia, T. x glauca	Cattails (wetland)			1		
Cirsium arvense	Canada thistle		1			
Dipsacus fullonum	Common Teasel					
Hesperis matronalis	Dame's Rocket	1		1		
Vinca minor (G-cover)	Periwinkle					

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

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

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

Project Label: PCAP

Project Name: 01 Rec 2013

Plot No.: 1399

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

Module #	C7	Corner	Corner	

NOTE: tussock and hummocks are counted in BOTH nested quadral corners but counts are aggregated.

||||| 1111 | |

NOTE: tussock and hummocks are counted in BOTH nested quadral corners but counts are aggregated.

||||| 1111 | |

||||| 1111 | |

MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only

Ranks for microhabitat features. Select one or select two and average the score. NOTE: If mod falls on a slope automatically gets ranked based on steepness (1-3) to begin + any features present

Slope 1 = slight elevational grade across module (1%)

Slope 2 = falls on slope ~20°

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

0 feature is absent or functionally absent from the wetland

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

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

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

C.W.D. - Count for pieces with minimum 1m length

no. of tussocks	no. of hummocks	no. macro depressions	c.w.d (2-12 cm)	c.w.d (12-40cm)	c.w.d >40 cm	microhab. interspers.	microhab.
uplands (Tip-1/pss)							
depth 3							
depth 2							
depth 1							
lxlm							
mod#	corner	(count)	(count)	(count)	(count)	(rank)	(rank)
1	0	1	18	2	1	3	0
2	0	2	13	1	3	2	0
3	0	3	14	2	1	3	0
4	0	3	2	-	0	0	0

CROWN COVER DENSITOMETER: Make 4 readings per module facing N, S, E, W. Place dot count in corresponding space (4 dots per grid square)							
Module	N	S	E	W			
1	64	34	28	166			
2	67	31	14	54			
3	69	18	28	73			
4	67	27	26	53			
				82			

MICRAB INDICES (degrees) + for up - for down						
LF1*		TSI**				
Fit=	Conf=	Fit=	Conf=	Az aspect	N	LF1*
				+45 degrees	NE	
				+90 degrees	E	
				+135 degrees	SE	
				+180 degrees	S	
				+225 degrees	SW	
				+270 degrees	W	
				+315 degrees	NW	

*LFI is angle of plot to the horizon. TSI is local slopes. For TSI measure records eye level of person standing ~10 m away.

**Terrain Shape Index (site microtopographic shape)

1111 1111 1111 1111

COVER BY STRATA

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

*Very tall shrubs are sometimes included in the tree stratum

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

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

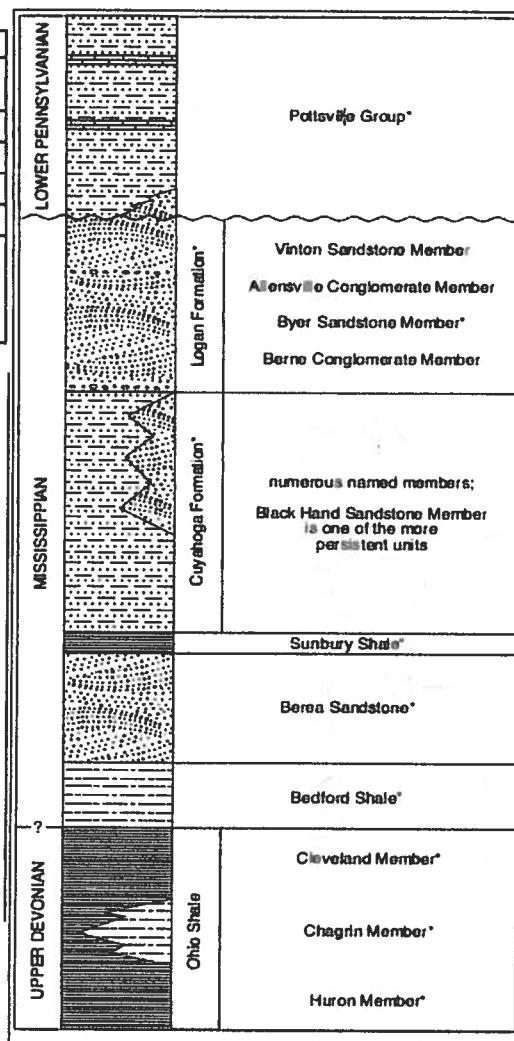
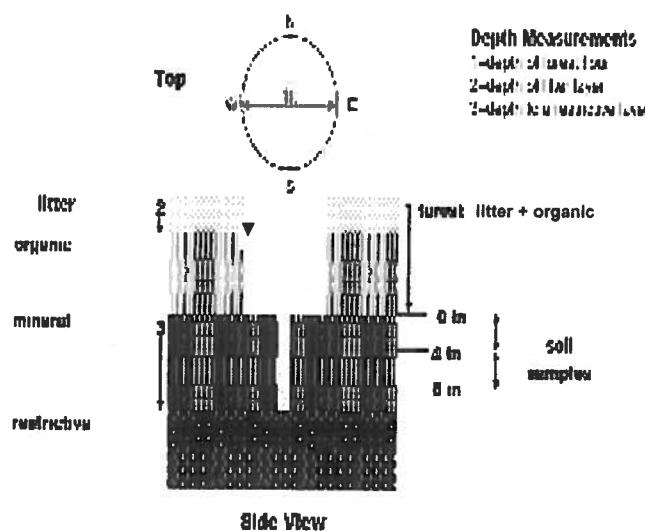


FIGURE 3-20.—Generalized section of Upper Devonian, Mississippian, and Lower Pennsylvanian formations in northeastern Ohio. Asterisks indicate units that are fossiliferous. This composite section represents about 400 meters of rock exposed across the area. The section is not to scale, but the thicknesses indicated are proportional. The term "Waverly" is used in the older literature to refer to Mississippian rocks in Ohio. Some geologists use the European term "Carboniferous," which encompasses the Mississippian and Pennsylvanian Periods of the U.S. Many units have been named within the Cuyahoga Formation, but most units are local and cannot be traced over great distances. The Black Hand Member is a spectacular massive sandstone that is fairly widespread but discontinuous. See Hyde (1953), Hoover (1960), and Collins (1979) for more information on Mississippian rocks in Ohio. See figure 3-18 for explanation of rock types.

CLEVELAND METROPARKS Plant Community Assessment Program - Soils, Crown Cover, Standing Biomass Data Sheet 6a

Project label: PCAP Project Name: 01 Be 2013

Plot No.: 1399

Page: 1 of 1

SOL PIT DESCRIPTION: Excavate 20 cm plug w/ shovel. Describe using Munsell chart, visual exam, texture, and odor.

SOL 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 pit module # 3 (one per entire plot)	
5 cm	matrix color: 2.5Y 3/2
modic color	—
%anode	0
oxidants	Y (N)
texture*	3
redox features**	Y (N)
hydr. cond.***	I S (M) D
20 cm	matrix color: 2.5Y 3/2
modic color	—
%anode	0
oxidants	Y (N)
texture*	3
redox features**	Y (N)
hydr. cond. ***	I S (M) D

Soil Collection Module	Horizon (A, B, C)
1234	A
2,3,4 composited	
Web Soil Survey Information:	
Soil Series Type: Tg. Tioga loam, frag-floods	
Soil Series Source: Ohio Soil Survey	
Landform type: Flood Plains	
Depth to rest Layer: >80" 10cm (Rst to 20 Aug 10)	
Parent Material: Alluvium	
DRAINAGE*	
Excessively dr. □ Somewhat excessively dr. Well drained □ Moderately well dr. Somewhat poorly dr. □ Very poorly dr. □ Impenetrable surface	

EARTH SURFACE & GROUND COVER	
Underlying Earth Surface*	Ground Cover
(Num = 100%)	percent
Histsol	0
Mineral Soil	95
Gravel-Cobble*	5
Boulder**	0
Bedrock	0
*Gravel-Cobble = 1/16-10"	Walter
**Boulder = > 10 in	Bare Soil
***>5 cm in diameter	Road/Mail
****<5 cm in diameter	Other

STAND SIZE	
Strata	Height Range (m)
Tre	7.5m - 3.8%
Shrub	2.1m - 5m 3%
Herb	0 - 1m 100%
(Floating)*	— na
(Aquatic)*	— na

No strata

*refer to texture classes on reverse side
** e.g. hydrogen sulfide odor, gleying, etc.
*** Circle one:
I=indurated S=saturated M=moist D=dry
Notes: include evidence of earthworms (worms, castings, middens)

	1 litter†	2 litter	water depth	depth soil
mod#	organic depth (cm)	depth (cm)	(cm)	soil (cm)
1	0.3	0.3	0	730.0 m
2	0.2	0.2	0	>30.0 cm
3	0.2	0.2	0	730.0 cm
4	0.1	0.1	0	>30.0 cm

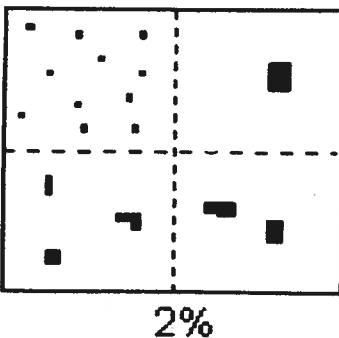
SEE BACK OF PAGE FOR "TYPICAL" STRATA
DESCRIPTIONS. STRATA CAN VARY BY COVER TYPE.

coarse sand particles

* soil is clayey
but also contains

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

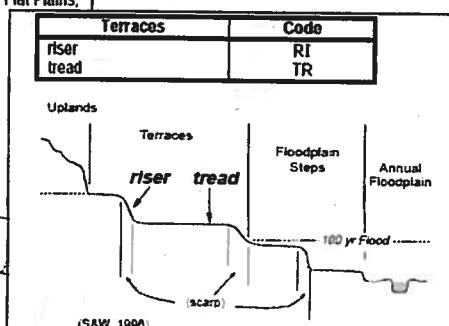
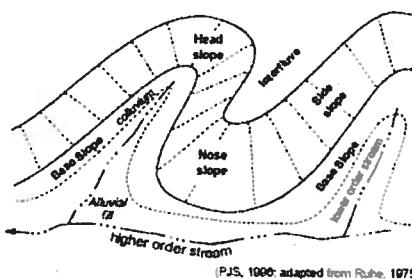
3= Sandy

4= Coarse Sand

9= Not measured - make plot note

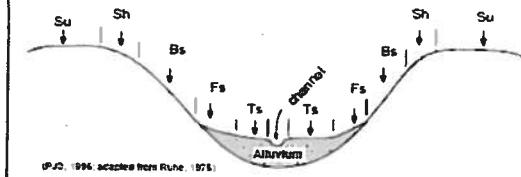
Geomorphic Component - Three-dimensional descriptors of parts of landforms or microfeatures that are best applied to areas. Unique descriptors are available for Hills, Terraces, Mountains, and Flat Plains; e.g., (for Hills) nose slope or NS.

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



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



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/SEMIPERMANENTLY 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.

SEMIPERMANENTLY 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.

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): _____

Site ID:

PCAP Be 1399

DATE: 08/26/2013

Location: AA Center ON OS OE OW	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	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 checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	Big Trees (>0.3m DBH)	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	Big Trees (>0.3m DBH)	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>
Small Trees (<0.3m DBH)	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	Small Trees (<0.3m DBH)	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	Small Trees (<0.3m DBH)	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>
Woody Shrubs, Saplings (0.5m-5m HIGH)	<input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	Woody Shrubs, Saplings (0.5m-5m HIGH)	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	Woody Shrubs, Saplings (0.5m-5m HIGH)	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input 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 type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	Woody Shrubs, Saplings (<0.5m HIGH)	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	Woody Shrubs, Saplings (<0.5m HIGH)	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>
Herbs, Forbs and Grasses	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input checked="" type="radio"/>		<input type="radio"/>	Herbs, Forbs and Grasses	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	Herbs, Forbs and Grasses	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>
Bare ground	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>		<input type="radio"/>	Bare ground	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	Bare ground	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>
Litter, duff	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>		<input type="radio"/>	Litter, duff	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	Litter, duff	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>
Rock	<input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>		<input type="radio"/>	Rock	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	Rock	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>
Water	<input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>		<input type="radio"/>	Water	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	Water	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>
Submerged Vegetation	<input checked="" type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>		<input type="radio"/>	Submerged Vegetation	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>	Submerged Vegetation	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/>

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

Residential and Urban Stressors				Hydrology Stressors				Agricultural & Rural Stressors							
Fill bubble If present - Plot	1	2	3	Flag	Fill bubble If present - Plot	1	2	3	Flag	Fill bubble If present - Plot	1	2	3	Flag	
Road - gravel	<input type="radio"/> <input type="radio"/> <input type="radio"/>				Ditches, Channelization	<input type="radio"/> <input type="radio"/> <input type="radio"/>				Pasture/Hay	<input type="radio"/> <input type="radio"/> <input type="radio"/>				
Road - two lane	<input type="radio"/> <input type="radio"/> <input type="radio"/>				Dike/Dam/Road/RR Bed (IMPEDE FLOW)	<input type="radio"/> <input type="radio"/> <input type="radio"/>				Range	<input type="radio"/> <input type="radio"/> <input type="radio"/>				
Road - four lane	<input type="radio"/> <input type="radio"/> <input type="radio"/>				Water Level Control Structure	<input type="radio"/> <input type="radio"/> <input type="radio"/>				Row Crops	<input type="radio"/> <input type="radio"/> <input type="radio"/>				
Parking Lot/Pavement	<input type="radio"/> <input type="radio"/> <input type="radio"/>				Excavation, Dredging	<input type="radio"/> <input type="radio"/> <input type="radio"/>				Fallow Field (RECENT-RESTING ROW CROP FIELD)	<input type="radio"/> <input type="radio"/> <input type="radio"/>				
Golf Course	<input type="radio"/> <input type="radio"/> <input type="radio"/>				Fill/Spoil Banks	<input type="radio"/> <input type="radio"/> <input type="radio"/>				Fallow Field (OLD - GRASS, SHRUBS, TREES)	<input type="radio"/> <input 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 type="radio"/> <input type="radio"/> <input type="radio"/>				Offroad vehicle damage	<input type="radio"/> <input type="radio"/> <input type="radio"/>				
Other: _____	<input type="radio"/> <input type="radio"/> <input type="radio"/>				Highly Grazed Grasses (OVERALL <3 HIGH)	<input type="radio"/> <input type="radio"/> <input type="radio"/>				Soil erosion (FROM WIND, WATER, OR OVERUSE)	<input type="radio"/> <input type="radio"/> <input type="radio"/>				
Other: _____	<input type="radio"/> <input type="radio"/> <input type="radio"/>				Recently Burned Forest Canopy	<input type="radio"/> <input type="radio"/> <input type="radio"/>				Other: _____	<input type="radio"/> <input type="radio"/> <input type="radio"/>				
Other: _____	<input type="radio"/> <input type="radio"/> <input type="radio"/>				Recently Burned Grassland (BLACKENED)	<input type="radio"/> <input type="radio"/> <input type="radio"/>				Other: _____	<input type="radio"/> <input type="radio"/> <input type="radio"/>				

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

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

2428168304

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

Reviewed by (Initial): _____

Site ID: PCAP Be 1399DATE: 08/26/2013

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

Fill bubble If present - Plot	1	2	3	Flag	Fill bubble If present - Plot	1	2	3	Flag	Fill bubble If present - Plot	1	2	3	Flag
Eurasian Watermilfoil	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Purple Loosestrife	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Johnson Grass	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Water hyacinth	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Knotweed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Kudzu	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Yellow Floating Heart	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Japanese Knotweed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Multiflora Rose	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Giant Salvinia	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Perennial Pepperweed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Common Buckthorn	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Garlic Mustard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Giant Reed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Himalayan Blackberry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Poison Hemlock	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Cheatgrass	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Tamarisk	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Mile-A-Minute Weed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Reed Canary Grass	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Birdsfoot Trefoil	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Common Reed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Canada Thistle	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Leafy Spurge	<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"/>	

PLOT COORDINATES

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

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

Location of coordinates (choose one):

Flag

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

Latitude North 41.38388Longitude West 081.55263

Use Decimal Degrees; NAD83

Flag	Comments

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): _____

Site ID: PCAP Be 1399

DATE: 08/26/2013

Location:	Fill in bubble(s) if plot(s) could not be sampled and flag →										
O AA Center	N	OS	O E	O W	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 E		Absent: 0	Buffer Plot 2	Canopy Type: D E		Absent: 0	Buffer Plot 3	Canopy Type: D E		Absent: 0		
	Leaf Type: B	N	Flag		Leaf Type: B	N	Flag		Leaf Type: B	N	Flag		
Big Trees (>0.3m DBH)	0	1	2	3	4			Big Trees (>0.3m DBH)	0	1	2	3	4
Small Trees (<0.3m DBH)	0	1	2	3	4			Small Trees (<0.3m DBH)	0	1	2	3	4
Woody Shrubs, Saplings (0.5m-5m HIGH)	0	1	2	3	4			Woody Shrubs, Saplings (0.5m-5m HIGH)	0	1	2	3	4
Woody Shrubs, Saplings (<0.5m HIGH)	0	1	2	3	4			Woody Shrubs, Saplings (<0.5m HIGH)	0	1	2	3	4
Herbs, Forbs and Grasses	0	1	2	3	4			Herbs, Forbs and Grasses	0	1	2	3	4
Bare ground	0	1	2	3	4			Bare ground	0	1	2	3	4
Litter, duff	0	1	2	3	4			Litter, duff	0	1	2	3	4
Rock	0	1	2	3	4			Rock	0	1	2	3	4
Water	0	1	2	3	4			Water	0	1	2	3	4
Submerged Vegetation	0	1	2	3	4			Submerged Vegetation	0	1	2	3	4

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

Residential and Urban Stressors				Hydrology Stressors				Agricultural & Rural Stressors							
Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	
Road - gravel	0	0	0		Ditches, Channelization	0	0	0		Pasture/Hay	0	0	0		
Road - two lane	0	0	0		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	0	0		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	0	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		
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

Buffer Sample Plots 05/27/2011

rose, privet, garlic, phalaris, vetch

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

Reviewed by (Initials): _____

Site ID: PCAP Be 1399DATE: 08/26/2013

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

Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag
Eurasian Watermilfoil	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		Purple Loosestrife	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		Johnson Grass	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	
Water hyacinth	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		Knotweed	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		Kudzu	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	
Yellow Floating Heart	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Japanese Knotweed	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Multiflora Rose	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
Giant Salvinia	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		Perennial Pepperweed	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Common Buckthorn	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
Garlic Mustard	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Giant Reed	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Himalayan Blackberry	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
Poison Hemlock	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Cheatgrass	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Tamarisk	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
Mile-A-Minute Weed	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Reed Canary Grass	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Other:	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
Birdsfoot Trefoil	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Common Reed	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Other:	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
Canada Thistle	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Leafy Spurge	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Other:	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
										Other:	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	

PLOT COORDINATES

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

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

Location of coordinates (choose one):

Flag

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

Latitude North 41.38463Longitude West 0.8155298

Use Decimal Degrees; NAD83

Flag	Comments

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): _____

Site ID:

PCAP Be 1399

DATE: 08/26/2013

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 →

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

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

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

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

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

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

2428168304

Buffer Sample Plots 05/27/2011

BB
LAW
ETC

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

Reviewed by (initial): _____

Site ID: PCAP Be 1399

DATE: 08/26/2013

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

Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag
Eurasian Watermilfoil	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Purple Loosestrife	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Johnson Grass	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Water hyacinth	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Knotweed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Kudzu	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Yellow Floating Heart	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Japanese Knotweed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Multiflora Rose	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Giant Salvinia	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Perennial Pepperweed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Common Buckthorn	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Garlic Mustard	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		Giant Reed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Himalayan Blackberry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Poison Hemlock	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Cheatgrass	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Tamarisk	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Mile-A-Minute Weed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Reed Canary Grass	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		Other:	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Birdsfoot Trefoil	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Common Reed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Other:	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Canada Thistle	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Leafy Spurge	<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"/>	

PLOT COORDINATES

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

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

Location of coordinates (choose one):

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

Flag

Latitude North 41.38350Longitude West 081.55164

Use Decimal Degrees; NAD83

Flag	Comments
<input checked="" type="radio"/>	Deer trail

7966623548

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): _____

Site ID: PCAP Bc 1399

DATE: 08/26/2013

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 →

O Plot 1 O Plot 2 O Plot 3

Buffer Natural Cover Strata

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

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

Buffer Plot 1	Canopy Type:		Absent:	Buffer Plot 2	Canopy Type:		Absent:	Buffer Plot 3	Canopy Type:		Absent:
	Leaf Type:	Flag	Leaf Type:		Leaf Type:	Flag	Leaf Type:		Leaf Type:	Flag	
Big Trees (>0.3m DBH)	0	1	2	1	0	2	3	0	1	2	3
Small Trees (<0.3m DBH)	0	1	2	1	0	2	3	0	1	2	3
Woody Shrubs, Saplings (0.5m-5m HIGH)	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	
Herbs, Forbs and Grasses	0	1	2	3	4	0	1	2	3	4	
Bare ground	0	1	2	3	4	0	1	2	3	4	
Litter, duff	0	1	2	3	4	0	1	2	3	4	
Rock	0	1	2	3	4	0	1	2	3	4	
Water	0	1	2	3	4	0	1	2	3	4	
Submerged Vegetation	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	0	0	0		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	0	0		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	0	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	
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

Buffer Sample Plots 05/27/2011

Garlic - 1/4, Barberry, Phalaris - 2

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

Reviewed by (Initial): _____

Site ID: PCAP Re 1999

DATE: 08/26/2013

② Confirm a filled data bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble

Fill bubble if present - Plot				Flag	Fill bubble if present - Plot				Flag	Fill bubble if present - Plot				Flag
	1	2	3			1	2	3			1	2	3	
Eurasian Watermilfoil	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Purple Loosestrife	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Johnson Grass	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Water hyacinth	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Knotweed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Kudzu	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Yellow Floating Heart	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Japanese Knotweed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Multiflora Rose	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Giant Salvinia	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Perennial Pepperweed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Common Buckthorn	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Garlic Mustard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Giant Reed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Himalayan Blackberry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Poison Hemlock	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Cheatgrass	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Tamarisk	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Mile-A-Minute Weed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Reed Canary Grass	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Birdsfoot Trefoil	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Common Reed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Canada Thistle	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Leafy Spurge	<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"/>	

PLOT COORDINATES

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

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

Location of coordinates (choose one):

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

Flag

Latitude North 41.38217

Longitude West 081.55249

Use Decimal Degrees; NAD83

Flag	Comments

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): _____

Site ID: PCAPBe 1399DATE: 08/26/2013

Location:

 AA Center ON OS OE W

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

 Plot 1 Plot 2 Plot 3

Buffer Natural Cover Strata

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

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

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

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

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

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

Flag codes: K = No measurement made, U = Suspect measurement., F1,F2, etc. = misc. flags assigned by each field crew.
Explain all flags in comment section on the back of this form

2428168304

Buffer Sample Plots 05/27/2011

RT
Haworth GW - 293

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

Reviewed by (initial): _____

Site ID: PCAP Be 1399

DATE: 08/26/2013

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

Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag
Eurasian Watermilfoil	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Purple Loosestrife	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Johnson Grass	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Water hyacinth	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Knotweed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Kudzu	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Yellow Floating Heart	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Japanese Knotweed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Multiflora Rose	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Giant Salvinia	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Perennial Pepperweed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Common Buckthorn	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Garlic Mustard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Giant Reed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Himalayan Blackberry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Poison Hemlock	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Cheatgrass	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Tamarisk	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Mile-A-Minute Weed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Reed Canary Grass	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Birdsfoot Trefoil	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Common Reed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Canada Thistle	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Leafy Spurge	<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"/>	

PLOT COORDINATES

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

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

Location of coordinates (choose one):

 AA CENTER N3 S3 E3 W3

● Nearest practicable location (flag and comment below)

Flag

I

Latitude North 41.38347 Longitude West 081.55424

Use Decimal Degrees; NAD83

Flag	Comments
I	Could not get GPS point at center, because it was in the river

7966623548