

CLEVELAND METROPARKS Plant Community Assessment Program: Quality Control Form



Project Label:

PCAP

Plot No: 1299

Date Sampled: 8/29/12

Lead: Barton

Comment required if item answer is NO

Parking/Access outside of Park Boundaries	<input checked="" type="radio"/> Y	N	If yes, write details in Comments section below
Field journals completed	<input checked="" type="radio"/> Y	N	
Site sketch made on 1:3000 map?	<input checked="" type="radio"/> Y	N	
Check cover page	X-axis Bearing of plot recorded	<input checked="" type="radio"/> Y	N
	GPS coords Recorded	<input checked="" type="radio"/> Y	N
	North direction recorded	<input checked="" type="radio"/> Y	N
	Photographs taken?	<input checked="" type="radio"/> Y	N
Plot No , Date agreement on all pages?	<input checked="" type="radio"/> Y	N	
Header data completed all pages?	<input checked="" type="radio"/> Y	N	
Cover classes recorded in all Intensive modules	<input checked="" type="radio"/> Y	N	
Browse Level By Species	<input checked="" type="radio"/> Y	N	
Woody stem quality control check	<input checked="" type="radio"/> Y	N	
Invasive plant quality control check	<input checked="" type="radio"/> Y	N	
Ash trees mapped	<input checked="" type="radio"/> Y	N	
Cover by Strata? (confirm cover type)	<input checked="" type="radio"/> Y	N	
Soil samples collected with matching plot #	<input checked="" type="radio"/> Y	N	
Vouchers labeled on datasheet with initials and number	<input checked="" type="radio"/> Y	N	
Vouchers labeled on collection bag	<input checked="" type="radio"/> Y	N	
Pink flags removed	<input checked="" type="radio"/> Y	N	
Data sheet QA before leaving site?	<input checked="" type="radio"/> Y	N	
Common equipment returned to tub	<input checked="" type="radio"/> Y	N	
Data sheets scanned?	Enter date to left <i>Sc 8/31/12</i>		
Final data sheets scanned?	Enter date to left		
Buffer Widths measured?	<input checked="" type="radio"/> Y	N	<i>AV 7-6-12</i>
Web Soil Survey	<input checked="" type="radio"/> Y	N	<i>SC 8-34-12</i>
Voucher Location	Refrigerator	<input checked="" type="radio"/> Y	N
(# vouchers collected)	Press (#)	Enter number to left	
	Drier	<input checked="" type="radio"/> Y	N
	Identified	<input checked="" type="radio"/> Y	N
	Mounted	<input checked="" type="radio"/> Y	N
	Thrown away	<input checked="" type="radio"/> Y	N

GRTS point verification: Is plot sampleable?

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

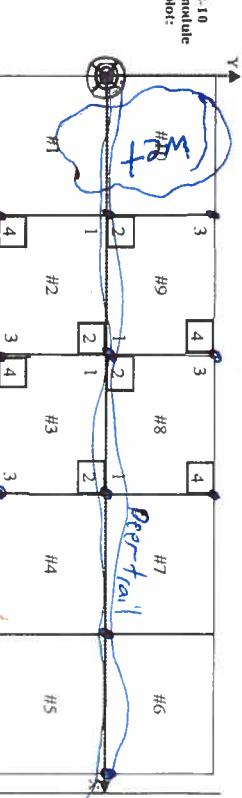
Additional Comments:

Park on gravel pull off on Canal rd. near Sagamore intersection

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

Page 1 of 2
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GENERAL INFORMATION		LOCATION	
Project Label: PCAP		State: OH County: Summit	
Project Name: 0/Bc2012		Quadrange: Northfield	
Plot Name: Dam Beavers!		Local Place Names: Canal Rd. and Sugamore Rd.	
Plot No.: 1299		Landowner: CM	
□ Level 4 (no nested corners sampled)		Data Confidentiality:	
■ Level 5 (nested corners sampled)		Check one: <input checked="" type="checkbox"/> Public data <input type="checkbox"/> Private Data	
Date (mm/dd/yyyy): 8/21/12		□ Fuzz 100m <input type="checkbox"/> Fuzz 250m <input type="checkbox"/> Fuzz 500m	
End date (if > 1 day): 8/22/12		Reason: If data not public why?	
Party: Z. Barton Role**: Plot leader		Source of coordinates: <input type="checkbox"/> MAP <input checked="" type="checkbox"/> GPS	
A. Young S. Lafetta		Coordinate system: <input type="checkbox"/> Lat/Long <input type="checkbox"/> UTM <input type="checkbox"/> StatePlane <input checked="" type="checkbox"/> Coord. Units <input type="checkbox"/> deg <input type="checkbox"/> deg min	
** Roles: Co-lead, Asst. Guide, Owner, Taxonomist, etc.		■ Other (specify) <input type="checkbox"/>	
PLOT NOT SAMPLED: <input type="checkbox"/> Other		Datum: ■ NAD83/WGS84 <input type="checkbox"/> NAD27	
□ Perv. water <input type="checkbox"/> Paved <input type="checkbox"/> Slope <input type="checkbox"/> Safety		GPS location in plot x=0 to 5, y=-1,0,+1): x = 0 y = 0 (base of plot x=0, y=0)	
SAMPLING QUALITY*: Effort Level: ✓ Very thorough <input type="checkbox"/> Accurate <input type="checkbox"/> Hurried <input type="checkbox"/> data		Latitude: N 41.344317 Longitude: W 81.59299308	
subjective evaluation of how much effort put into sampling. Hurried plots may still provide good data		Coord. Accuracy: <input checked="" type="checkbox"/> m <input type="checkbox"/> ft 100% GPS File Name: 1299A	
Plot size for cover data: 0.1 (hectares)		Plot size for cover data: 0.1 (hectares)	
X-axis Bearing of plot: [105]° Depth: (1-5): 4		X-axis Bearing of plot: [105]° Depth: (1-5): 4	
TAXONOMIC ACCURACY		RATIONALE: GRTS point.	
high <input checked="" type="checkbox"/> moderate <input type="checkbox"/> low <input type="checkbox"/> not sampled <input type="checkbox"/> n/a <input type="checkbox"/>		Intensive modules: 2, 3, 8, 9 (EDIT IF MODIFIED)	
vascul. <input checked="" type="checkbox"/> bryo <input type="checkbox"/> lichen <input checked="" type="checkbox"/>		Camera No.: 4 Photo Nos.: 0255	
Plot placement: <input checked="" type="checkbox"/> GRTS <input type="checkbox"/> Representative		Plot placement: <input checked="" type="checkbox"/> GRTS <input type="checkbox"/> Representative	
TAXONOMIC STANDARD		Veg. Char.: Tree- <i>Quercus alba</i> , <i>Acer negundo</i> , <i>Acer saccharum</i> , <i>Platanus occidentalis</i> , <i>Magnolia</i> , <i>Aesculus glabra</i> , Shrub- <i>Lindera benzoin</i> , <i>Lonicera maackii</i> , <i>Lonicera morrowii</i> , <i>Rosa multiflora</i> ; <i>Ostrya virginiana</i>	
Authority: G&C Pub Date: 1998		* Definitions and values in CM PCAP FOM v. 1.0 and CVS Field Guide	
Minimum required fields in Bold and Underlined			



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.

LOCATION: 2 x 5

PARKED in a gravel lot on the east side of Canal Rd. just south of Canal Rd. and Sugamore, cross the road and canal to get to *Towpath trail* (seen on map), take *towpath* south (bends around canal) and you will end up ~45m south of point. Use waders or fallen white oak (very stable) to cross canal and get to point.

INTENSIVE MODULES: 2, 3, 8, 9 (EDIT IF MODIFIED)
CAMERA NO.: 4 **PHOTO NOS.:** 0255
DEPTH: (1-5): 4
VEG. CHAR.: Tree- *Quercus alba*, *Acer negundo*, *Acer saccharum*, *Platanus occidentalis*, *Magnolia*, *Aesculus glabra*, Shrub- *Lindera benzoin*, *Lonicera maackii*, *Lonicera morrowii*, *Rosa multiflora*; *Ostrya virginiana*

? Cont. on back

OVER

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

Project Label: PCAP

Project Name: 01B2012

Plot No.: 1299

Glacial Moraine

Page 2 of 2

MODIFIED NATURESERVE CLASS*

CODE (on separate form):

D

Fit= G Conf= H

COMMUNITY NAME:

Mixed Forest

HOMOGENEITY

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

wet depression and D

HYDROLOGIC REGIME*

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

(by default unless plot is a wetland)

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

Mod 10 & part of mod 1 contain a large wet depression w/ numerous "wet" species such as
Pilea pumila & *Polygonum hydroppoides*.

cont. from front

Herb-Toxicodendron radicans, *Parthenocissus quinquefolia*, *Elymus hystrix*, *Galium triflorum*, *Polygonum virginianum*

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

Project Label:

PCAP

Project name: OIBr2012

Plot no.: 1299 Page 1 of 1

Total modules: 10

Intensive modules: 4

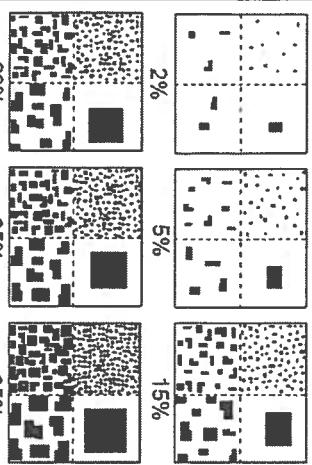
Plot configuration: 2x5

Plot area (ha): 0.1

Cleveland Metroparks		Br = Browse Level. Use cover classes to describe amount of browse per species over entire plot												Estimate for each intensive module:															
T	S	H	(F)	(A)	Br																								
						%unveg. ground (bare soil)	%unveg. litter (bare litter)	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner		
						depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	
5	2	5	+	Lonicera morrowii	2	4	2	2	3	4	3	2	8	4	3	2	9	4	9	2	R	R							
2	2	2	+	Toxicodendron radicans	1	0			1	0			1	0			1	0											
4				Ulmus americana	4	5			1	0			1	0			1	0											
3	2	8	+	Lindera benzoin	3	5	4	3	4	3	2	3	2	3	3	3	3	3	4	3	3								
2		Acer negundo	3	2		3	2	3	2	3	2	3	2	3	2	3	1	1											
2		Elymus hystrix	3	2		1	2																						
4	2			Prunus serotina	3	2	2	4	2	2	2	2	2	2	2	2	2	2	2	2	2								
2	2	4	-	Vitis sp.	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2								
3	2			Alliaria petiolata	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2								
2	2	8	+	Crataegus sp.	3	2	3	4	5	4	5	4	5	4	5	4	5	4	5	4	5								
2	2	8	+	Parthenocissus quinquefolia	3	2	3	4	2	3	2	3	2	3	2	3	2	3	2	3	2	3							
7		Ulmus seedlings	3	2		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2								
2		Hackelia virginiana	2	2		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2								
2		Polygonum hydropiperoides	2	2		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2								
2		Gaultheria triflorum	2	2		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2								
2		Veronica officinalis	2	2		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2								
2		Geum canadense	2	2		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2								
2		Rhamnus frangula	2	2		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2								
1	2	Carex rosea	2	2		1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2								
3	2	Lonicera maackii	2	1		1	2	2	3	3	3	3	3	2	3	2	2	2	2	2	2								
2	2	Oxalis stricta	2	2		1	2	2	2	2	2	2	2	1	2	2	2	2	2	2	2								
2	2	Cirsium heterophyllum	2	2		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2								
3	2	Aesculus glabra	2	2		4	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2								
2	2	Rosa multiflora	2	3		4	7	2	2	6	4	7	2	6	4	7	2	5	4	7	2								
1		Anasacca trifoliiflora	2	1		3	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3								

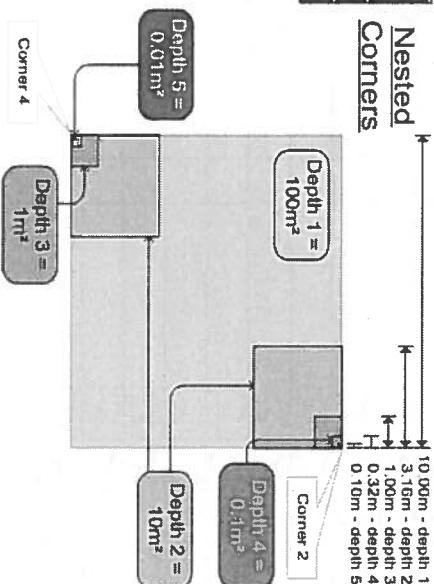
EXAMPLES OF PERCENT OF AREA COVERED

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



cover class	% cover	mid point
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



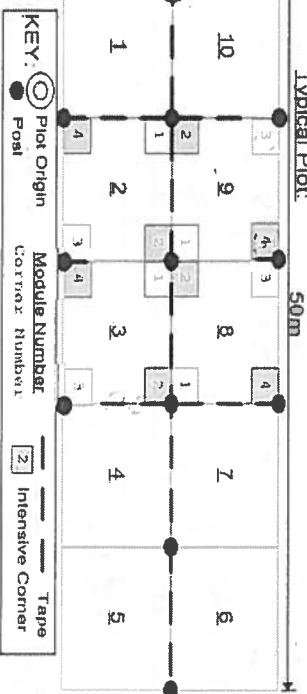
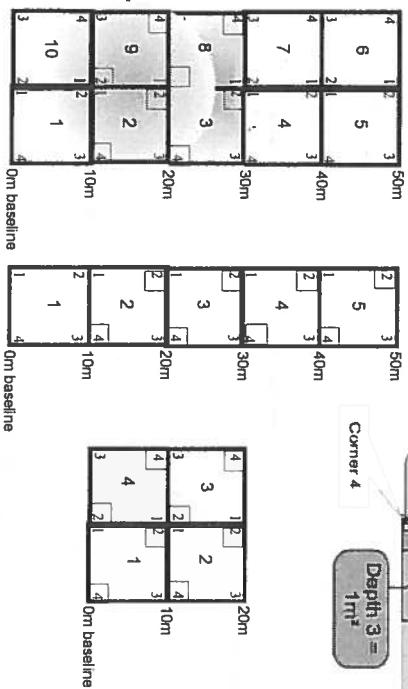
LOW OR NONE: there is no measurable browse line AND there are very few or no plants 1-m nested quadrat and intensive module. In general, low values relate to less than 10 percent, by numbers of stems browsed.

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 1m² 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.

HIGH: greater than 25 percent of the stems of plants in the 1m² 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

Page 2 of 4

Project name: 01Br2012

Plot no.: 1299

Total modules:

Intensive modules:

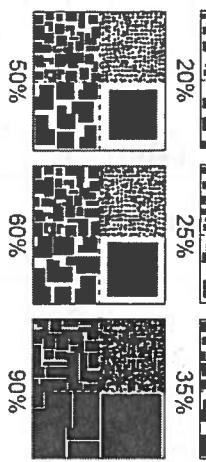
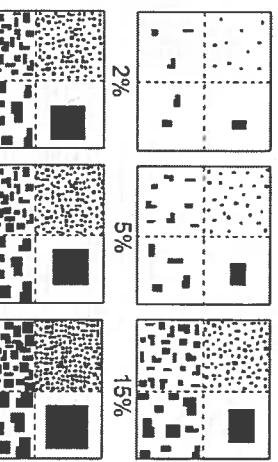
Plot configuration:

Plot area (ha): _____

		Cleveland Metroparks																					
		Strata - Cov. entire plot																					
T	S	H	(F)	(A)	Br	Species	C	Voucher #	mod	corner													
2	2	7	Fraxinus	speedlings			2	2	2	3	2	3	2	3	2	3	2	3	2	3	2	3	
2	2	10	Aster	laticifloris			2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
2	2	10	Ligustrum	vulgare			1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	3	Polygonum	virginianum				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	8	Acer	nigrum				1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1
2	2	Quercus	alba				1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1
1	1	Verbena	alternifolia				1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1
2	2	Corpus	SP.				1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1
2	2	Rubus	occidentalis				1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1
2	2	Actea	alba				1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1
2	2	Carpinus	caroliniana				1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1
2	2	Rubus	Densipulanca				1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1
2	2	Geranium	maculatum				1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1
2	2	Eupatorium	nigrescens				1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1
2	2	Carex	SP. 1				1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1
5	5	Pilea	pumila				1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1
2	2	Smilax	hispidula				1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1
4	2	Morus	alba				1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1
2	2	Berberis	Thunbergii				1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1
2	2	Lignum	scrifolium				1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1
2	2	Allium	franscicum				1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1
2	2	Sparganium	SP. ZSB 975-2	ZSB 192			1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1
3	2	Anemone	SP. ZSB 975-2	ZSB 192			1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1
1	1	Gaura	cordifolia				1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1
1	1	Phytolacca	americana				1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1

EXAMPLES OF PERCENT OF AREA COVERED

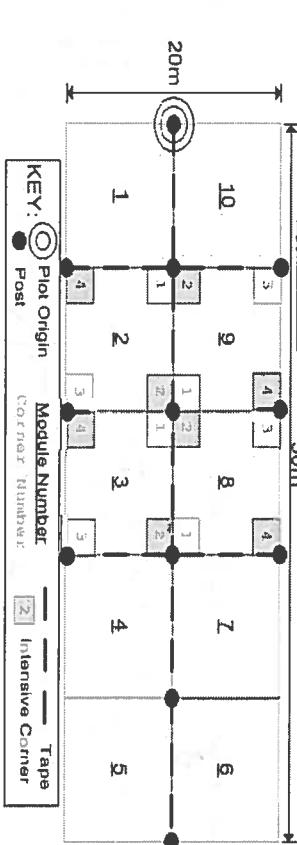
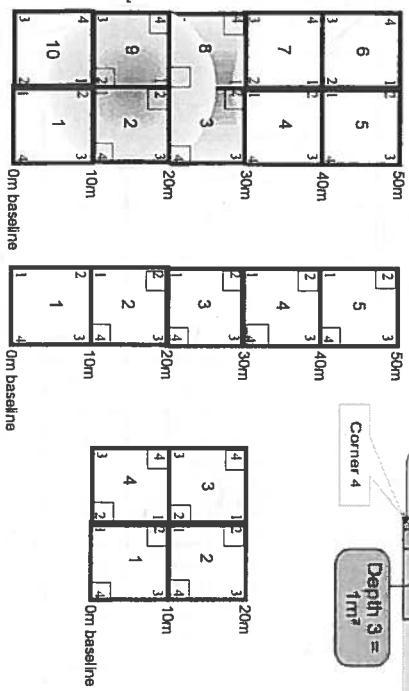
The following graphic can be used for various data elements to convey 'Amount' or 'Quantity'. NOTE: Within any given box, each quadrant contains the same total area covered just different sized objects.



50% 60% 70% 80%

Nested
Corners

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



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

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

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

Typical Plot:

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.

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.

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.

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.

KEY: ● Plot Origin Module Number [Z] Intensive Corner

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

Page 3 of 4
 Project Label: PCAP
 Project name: DBr 2012 Plot no.: 1299

Total modules:

Intensive modules:

Plot configuration:

Plot area (ha):

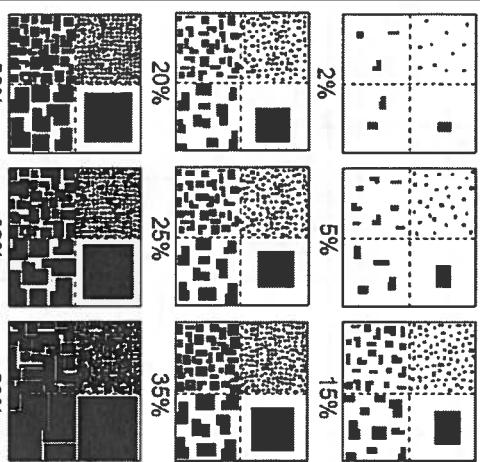
Cleveland Metroparks	Estimate for each intensive module:											
	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner
Br = Browse Level: Use cover classes to describe amount of browse per species over entire plot	2	4	9	2	3	4	3	2	8	4	9	2
%unvegetated open water	1		1		1		1		1		1	
%unveg. litter (bare soil)	1		1		1		1		1		1	
%unveg. litter (bare litter)	1		1		1		1		1		1	

Strata - Cov. entire plot

T	S	H	(F)	(A)	Br	Species	c	Voucher #	depth	cov														
2						Prunus pensylvanica																		
2						Quercus spp./lings																		
2						Acer spp./lings																		
2						Carex sp. 2 (lax)																		
2						Ribes spp./synosbeta		ZSB 193																
2						Moss spp.																		
2						see 10-16-10																		
1						Ulmus rubra																		
1						Menispermum canadense																		
5						Acer saccharum																		
2						Quercus rubra																		
4						Platanus occidentalis																		
3						Ostrya virginiana																		
1						Solidago spp.																		
1						Urtica dioica																		
2						Gaultheria shallon																		
2						Phalaris aquatica																		
2						Fraxinus spp.																		
2						Leersia oryzoides																		
2						Agrimonia pubescens																		
2						Cina arundinacea																		
2						Glyceria striata																		
1						Taxodium distichum																		
2						Amphoricarpha bractea																		
2						Larix sp. 3 (lax)																		
2						Carex sp. 4 (lax)																		

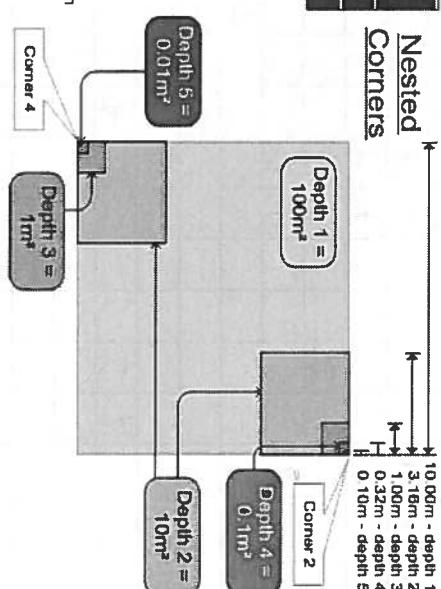
EXAMPLES OF PERCENT OF AREA COVERED

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



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

Nested Corners



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.

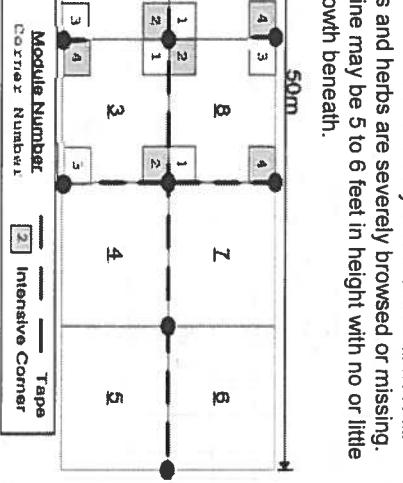
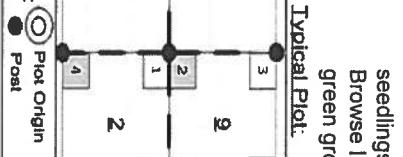
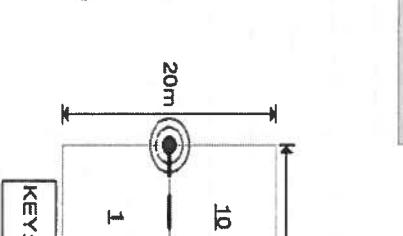
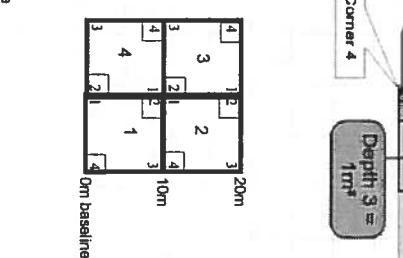
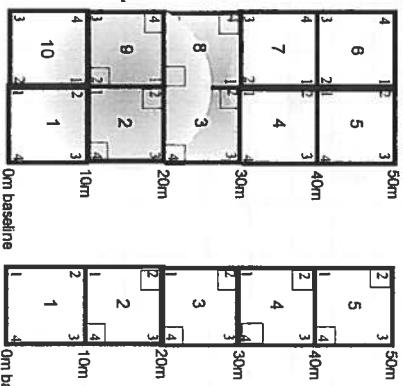
MEDIUM LOW values include evidence of browse at about 10 percent of the stems with no significant impact to plant reproduction evident. In this rating, plants are browsed but preferential species are observed to be reproducing in numbers that appear normal or near-normal in comparison to low browse areas.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

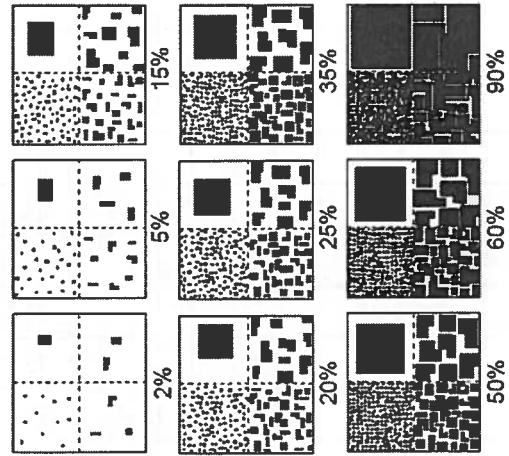


KEY:

- Plot Origin
- Module Number
- Intensive Corner

EXAMPLES OF PERCENT OF AREA COVERED

The following graphic can be used for various data elements to convey "Amount" or "Quality". 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

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.

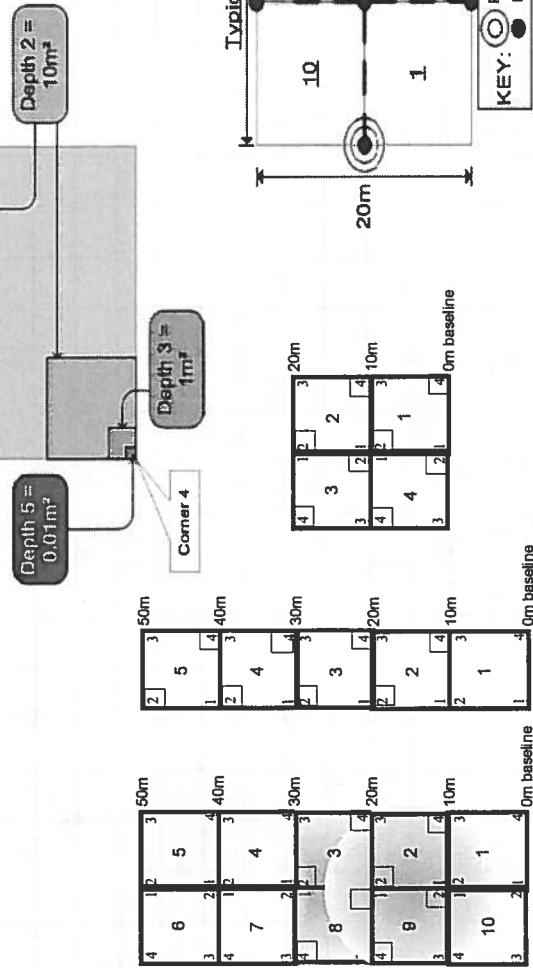
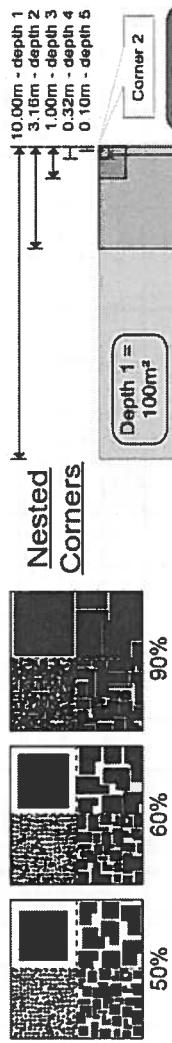
VERY HIGH values include extensive browse conditions,

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	mid point
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 Natural Woody Stem Data Sheet

Project Label: PCAP

Project Name: 01312012

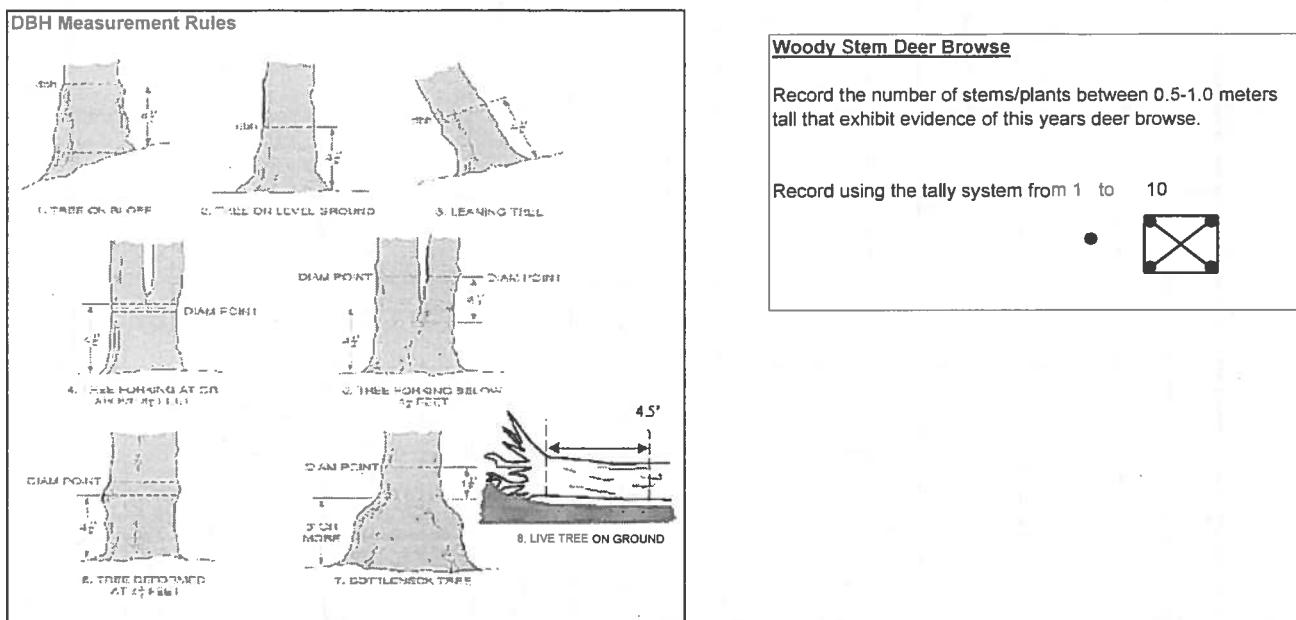
Plot No.: 1299

Page: 1 of 6

Remember standing dead

Explain subsample (additional room on back):

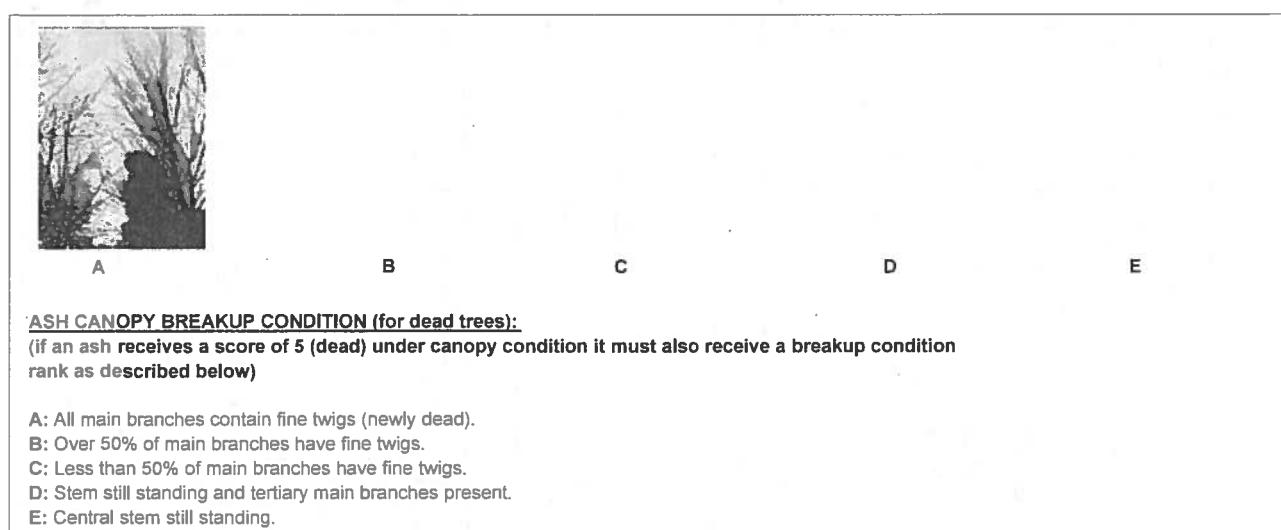
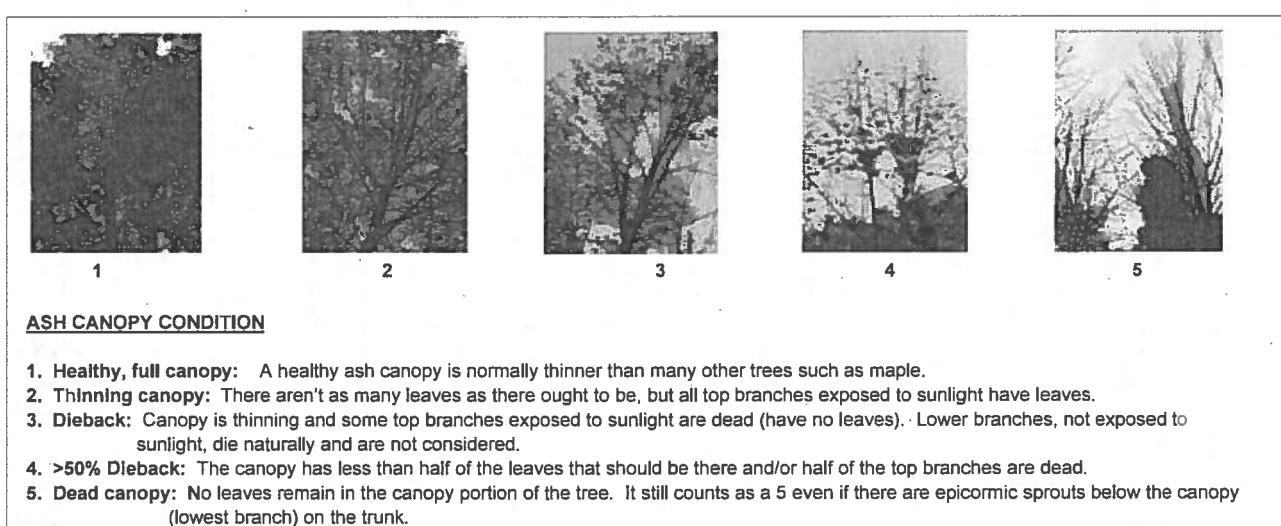
mod #	species	c voucher#	# stems 0-1.4m browsed	% sub or super sample	# shrub clumps	size class (cm) woody stems > 1.4m										>40 (record each tree)
						1	2	3	4	5	6	7	8	9	10	
✓ 1	Aesculus glabra					•				•						
✓ 1	Kindbergia benzoin	☒:			☒											
✓ 1	Ulmus rubra															
✓ i	Standing dead					•	•									
✓ i	Acer saccharum															
✓ i	Acer nigrum			•												
✓ i	Fraxinus sp.			•												
✓ i	Prunus serotina					•										
✓ i	Lonicera maackii	☒			☒											
✓ i	Koncera monnierii	:			:											
✓ i	Carya cordiformis															
✓ i	Rubus occidentalis				•											
✓ i	Rosa multiflora				•											
✓ i	Acer negundo															
✓ 2	Standing dead				•											
✓ 2	Carya cordiformis															
✓ 2	Ulmus sp.	10														
✓ 2	Ulmus rubra															
✓ 2	Ulmus americana					•										
✓ 2	Toxicodendron radicans				☒	•	•	•	•							
✓ 2	Acer nigrum															
✓ 2	Aesculus glabra															
✓ 2	Bonicaea macchiai	☒		16												
✓ 2	Lindera benzoin	☒		☒												



Woody Stem Deer Browse

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

Record using the tally system from 1 to 10



CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

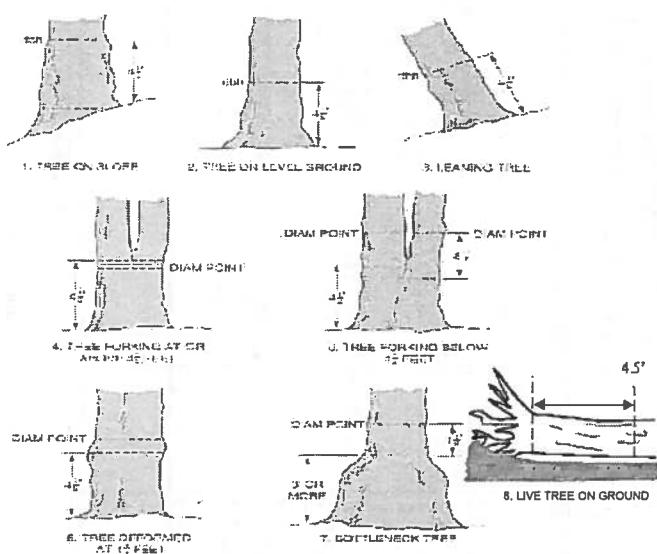
Project Label: PCAPProject Name: OIBR-2012Plot No.: 1294Page: 2 of 6

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										
							0-1	1-2.5	2.5-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	>40 (record each tree)
✓2	<i>Lonicera morrowii</i>			••		X											
✓2	<i>Fragaria Virginiana</i>			••		••											
✓2	<i>Rosa multiflora</i>			••		••											
✓2	<i>Rubus occidentalis</i>			••		••											
✓2	<i>Acer negundo</i>			••													
✓2	<i>Cornus sp.</i>			••													
✓2	<i>Carpinus caroliniana</i>			•													
✓2	<i>Parthenocissus quinquefolia</i>			••													
✓2	<i>Rubus pensylvanica</i>			••													
✓2	<i>Crataegus sp.</i>			•													
✓2	<i>Morus alba</i>			•													
✓3	<i>Parthenocissus quinquefolia</i>					••											53.2
✓3	<i>Quercus alba</i>																
✓3	<i>Acer nigrum</i>																
✓3	<i>Aesculus glabra</i>																
✓3	<i>Ulmus rubra</i>																
✓3	<i>Crataegus sp.</i>																
✓3	<i>Hedera helix</i>			•		X											
✓3	<i>Kraxina sp.</i>			•													
✓3	<i>Lonicera maackii</i>	23		22													
✓3	<i>Berberis thunbergii</i>			2													
✓3	<i>Rosa multiflora</i>	3		1													
✓3	<i>Smilax hispida</i>			•													
✓3	<i>Carya cordiformis</i>			••													

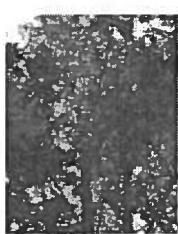
DBH Measurement Rules



Woody Stem Deer Browse

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

Record using the tally system from 1 to 10



1



2



3



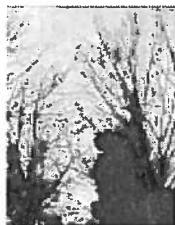
4



5

ASH CANOPY CONDITION

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



A

B

C

D

E

ASH CANOPY BREAKUP CONDITION (for dead trees):

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

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

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP

Project Name: 01 Br 2012

Plot No.: 1299

Page: 3 of 6

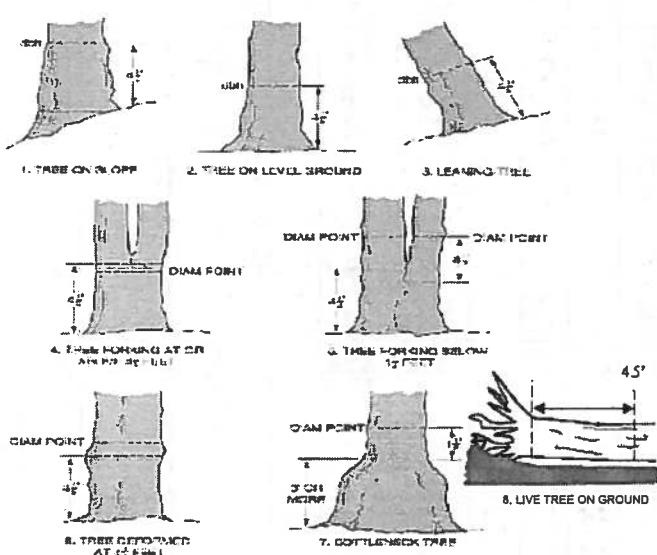
Cleveland Metroparks

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	11	
✓4	<i>Ulmus americana</i>					1	1-2.5	2.5-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	>40	
✓4	<i>Ostrya virginiana</i>																
✓4	<i>Rubus occidentalis</i>	12:															
✓4	Standing dead																
✓4	<i>Aesculus glabra</i>																
✓4	<i>Crataegus sp.</i>																
✓4	<i>Rosa multiflora</i>	1:															
✓4	<i>Ulmus rubra</i>																
✓4	<i>Lindera benzoin</i>	3:															
✓4	<i>honey locust</i> mackii	9															
✓4	<i>Ligustrum vulgare</i>					1											
✓4	<i>Ulmus sp.</i>																
✓4	<i>Toxicodendron radicans</i>	1:															
✓4	<i>Crataegus sp.</i>	1															
✓4	<i>Rubus pensylvanica</i>	1															
✓5	<i>Corylus cordiformis</i>																
✓5	<i>Toxicodendron radicans</i>																
✓5	<i>Acer nigra</i>																
✓5	Standing dead																
✓5	<i>Vitis sp.</i>																
✓5	<i>Crataegus sp.</i>																
✓5	<i>Rosa multiflora</i>	1:															
✓5	<i>Cornus florida</i>																
✓5	<i>Quercus alba</i>																

se 8/3/112

DBH Measurement Rules



Woody Stem Deer Browse

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

Record using the tally system from 1 to 10



1



2



3



4



5

ASH CANOPY CONDITION

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



A

B

C

D

E

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- E: Central stem still standing.

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP

Project Name: 01/13/2012

Plot No.: 1299

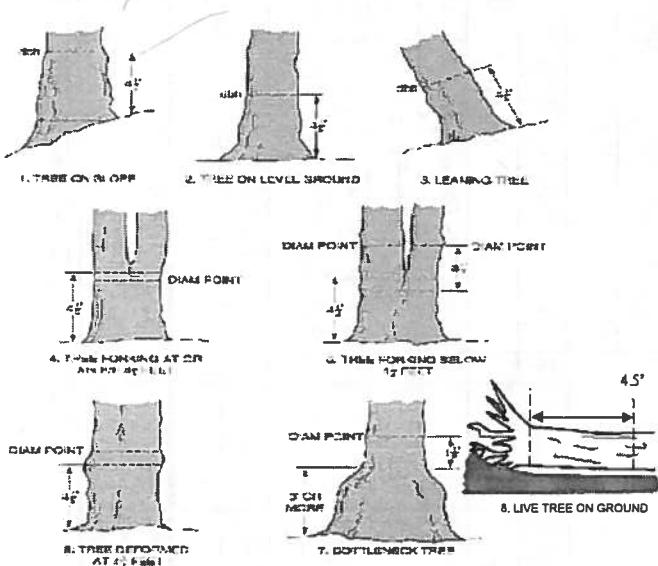
Page: 4 of 6

Cleveland Metroparks

Explain subsample (additional room on back):

plot #	species	c	voucher#	# stems 0-1.4m browsed	% sub or super sample	# shrub clumps	size class (cm) woody stems >1.4m											11 >40 (record each tree)
							1	2	3	4	5	6	7	8	9	10	11	
✓ 5	<i>Parthenocissus quinquefolia</i>					1												
✓ 5	<i>Lonicera maackii</i>	41	Sub	25	7													
✓ 5	<i>Lindera benzoin</i>					• 25 Sub	1											BROWNSA
✓ 5	<i>Koniceria monilifera</i>																	
✓ 5	Acer negundo																	
✓ 5	<i>Carpinus caroliniana</i>																	
✓ 6	<i>Parthenocissus quinquefolia</i>					••												
✓ 6	<i>Acer nigrum</i>																	
✓ 6	<i>Kindera benzoin</i>					••												
✓ 6	<i>Carya cordiformis</i>																	
✓ 6	<i>Aesculus glabra</i>																	
✓ 6	Standing dead																	
✓ 6	<i>Acer saccharum</i>																	
✓ 6	<i>Ulmus americana</i>																	
✓ 6	<i>Koniceria maackii</i>	15	13															
✓ 6	<i>Rosa multiflora</i>																	
✓ 6	<i>Smilax hispida</i>																	
✓ 6	<i>Toxicodendron radicans</i>																	
✓ 6	<i>Crataegus sp.</i>																	
✓ 7	Standing dead																	
✓ 7	<i>Lindera benzoin</i>	NA	NA															
✓ 7	<i>Acer nigrum</i>																	
✓ 7	<i>Acer saccharum</i>																	

DBH Measurement Rules



Woody Stem Deer Browse

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

Record using the tally system from 1 to 10



1



2



3



4



5

ASH CANOPY CONDITION

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A

B

C

D

E

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- E: Central stem still standing.

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP

Project Name: OIBr-2012

Plot No.: 1299

Page: 5 of 6

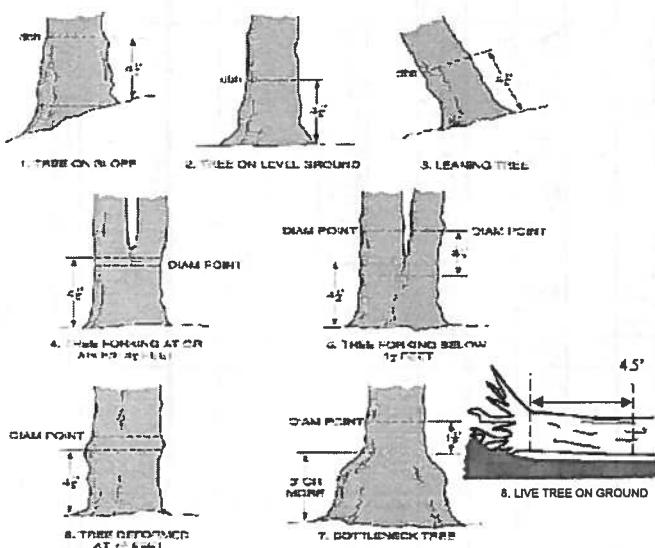
Cleveland Metroparks

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											10 >40 (record each tree)
							1	2	3	4	5	6	7	8	9	10	11	
✓ 7	Vitis sp.		16															
✓ 7	Parthenocissus				•													
✓ 7	Ulmus sp.				•													
✓ 7	Populus alba																	
✓ 7	Monocera mackii	•																
✓ 8	Quercus rubra																	
✓ 8	Aesculus glabra																	
✓ 8	Acer saccharum																	
✓ 8	Carya cordiformis																	
✓ 8	Astus alleghenianum																	
✓ 8	Standing dead																	
✓ 8	hindera benzoin																	
✓ 8	honicera mackii	14																
✓ 8	Vitis sp.																	
✓ 8	Ribes sp.	293AB																
✓ 9	Ulmus sp.																	
✓ 9	Acer nigrum																	
✓ 9	Aesculus glabra																	
✓ 9	Acer saccharum																	
✓ 9	Rosa multiflora																	
✓ 9	Rubus pensylvanica	•																
✓ 9	Prunus serrula																	
✓ 9	Ostrya virginiana																	
✓ 9	Standing dead																	

not a
mistake

DBH Measurement Rules



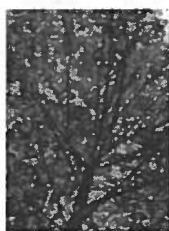
Woody Stem Deer Browse

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.
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A

B

C

D

E

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- D: Stem still standing and tertiary main branches present.
- E: Central stem still standing.

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP

Project Name: 01 Br 2012

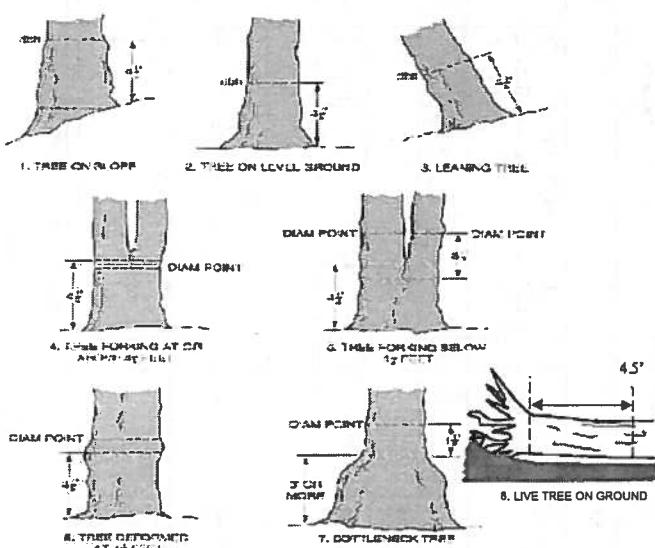
Plot No.: 1299

Page: 6 of 6
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	11		
v9	Lindera benzoin	b	18	b	b	b	0	0	0	0	0	0	0	0	0	0	0	b 6 0.7 c	
v9	Lonicera maackii	14		b	b	b	0	0	0	0	0	0	0	0	0	0	0	b = browsed c = clump	
v9	Rubus occidentalis	b		b	b	b	0	0	0	0	0	0	0	0	0	0	0		
v9	Vitis sp.			b	b	b	0	0	0	0	0	0	0	0	0	0	0		
v9	Acer negundo			b	b	b	0	0	0	0	0	0	0	0	0	0	0		
v9	Ulmus sp.			b	b	b	0	0	0	0	0	0	0	0	0	0	0		
v9	Parthenocissus quinquefolia			b	b	b	0	0	0	0	0	0	0	0	0	0	0		
v9	Cataegus sp.			b	b	b	0	0	0	0	0	0	0	0	0	0	0		
v10	Rubus occidentalis	b	12	b	b	b	0	0	0	0	0	0	0	0	0	0	0		
v10	Ostrya virginiana	b		b	b	b	0	0	0	0	0	0	0	0	0	0	0		
v10	Stansia dead			b	b	b	0	0	0	0	0	0	0	0	0	0	0		
v10	Fraxinus sp.			b	b	b	0	0	0	0	0	0	0	0	0	0	0		
v10	Prunus pensylvanica	b		b	b	b	0	0	0	0	0	0	0	0	0	0	0		
v10	Aesculus glabra	b		b	b	b	0	0	0	0	0	0	0	0	0	0	0		
v10	Ligustrum vulgare	b		b	b	b	0	0	0	0	0	0	0	0	0	0	0		
v10	Lindera benzoin	18	17	b	b	b	0	0	0	0	0	0	0	0	0	0	0		
v10	Rosa multiflora	b		b	b	b	0	0	0	0	0	0	0	0	0	0	0		
v10	Lonicera maackii	b		b	b	b	0	0	0	0	0	0	0	0	0	0	0		
v10	Acer negundo	b		b	b	b	0	0	0	0	0	0	0	0	0	0	0		
v2	Smilax hispida	b		b	b	b	0	0	0	0	0	0	0	0	0	0	0		

DBH Measurement Rules



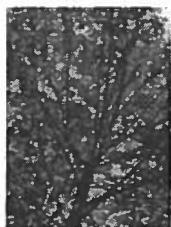
Woody Stem Deer Browse

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.



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

Soil pit module # <u>8</u> (one per entire plot)
5 cm matrix color <u>10 YR 2/1</u>
moisture color <u>NONE</u>
%anottle <u>0</u>
oxid roots <u>Y</u> <u>Q</u>
texture* <u>1</u>
redox features** <u>Y</u> <u>G</u>
hydr cond*** <u>I S M D</u>
20 cm matrix color <u>10 YR 2/1</u>
moisture color <u>NONE</u>
%anottle <u>0</u>
oxid roots <u>Y</u> <u>(N)</u>
texture* <u>3</u>
redox features** <u>Y</u> <u>Q</u>
hydr cond. *** <u>I S M D</u>

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

Soil Collection Module	Horizon (A, B, C)
2,3,8,9 composted	A
With Soil Survey Information	
Soil Series/Type: <u>Conotton - Cutler</u> <u>Levee</u> <u>is that?</u>	
Soil Series Source: Ohio Soil Survey	
Landform type: <u>Valley Sides</u> <u>Raines</u>	
Depth to rest layer: <u>>80"</u>	
Parent Material: <u>Outwash</u>	
DRAINAGE*	
<input checked="" type="checkbox"/> Well drained <input type="checkbox"/> Somewhat excessively	
<input type="checkbox"/> Moderately well dr. <input type="checkbox"/> Very poorly dr.	
<input type="checkbox"/> Impenetrable surface	

EARTH SURFACE & GROUND COVER	
Underlying Earth Surface*	Ground Cover
(Sum = 100%)	percent (Each ≤ 100%)
Histosol	<u>100</u> Coarse Woody Debris***
Mineral Soil	<u>100</u> Fine Woody Debris***
Gravel-Cobble*	<u>0</u> Litter
Boulder**	<u>0</u> Duff (Fern + Humus)
Bedrock	<u>0</u> Bryophyte- Lichen
Water	<u>0</u>
**Boulder = > 10 in	<u>3</u>
***>5 cm in diameter	<u>4</u>
****<5 cm in diameter	Other

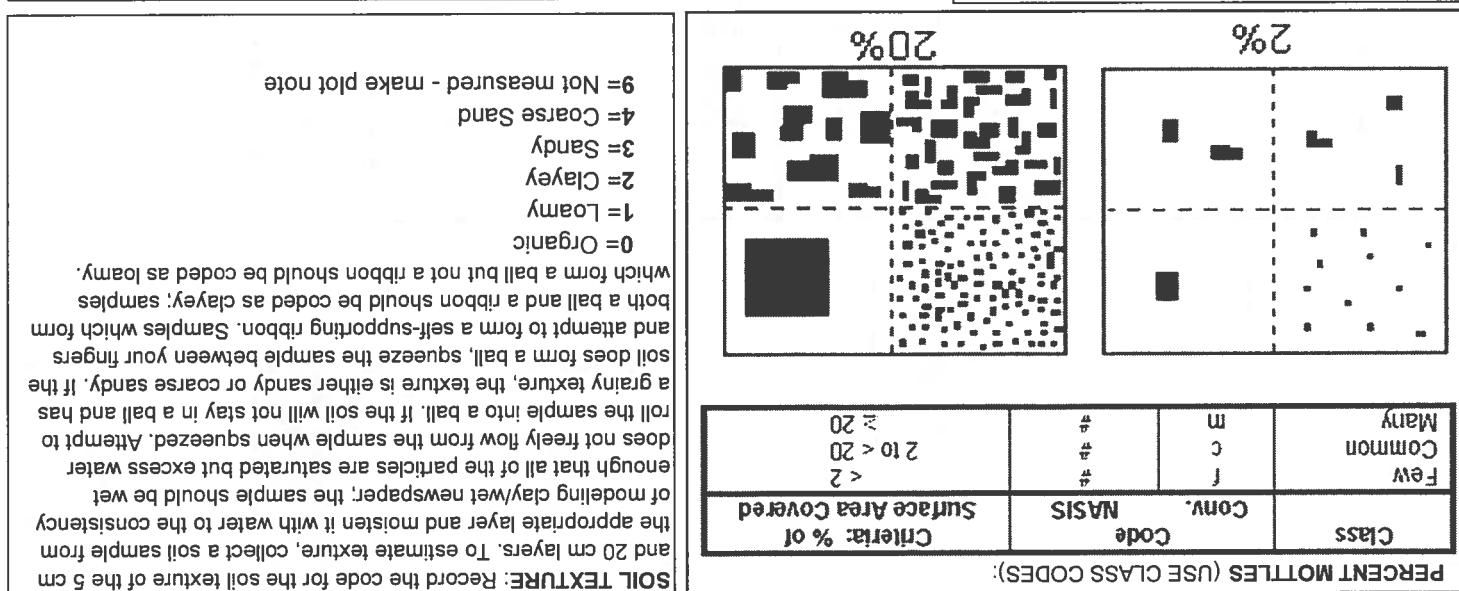
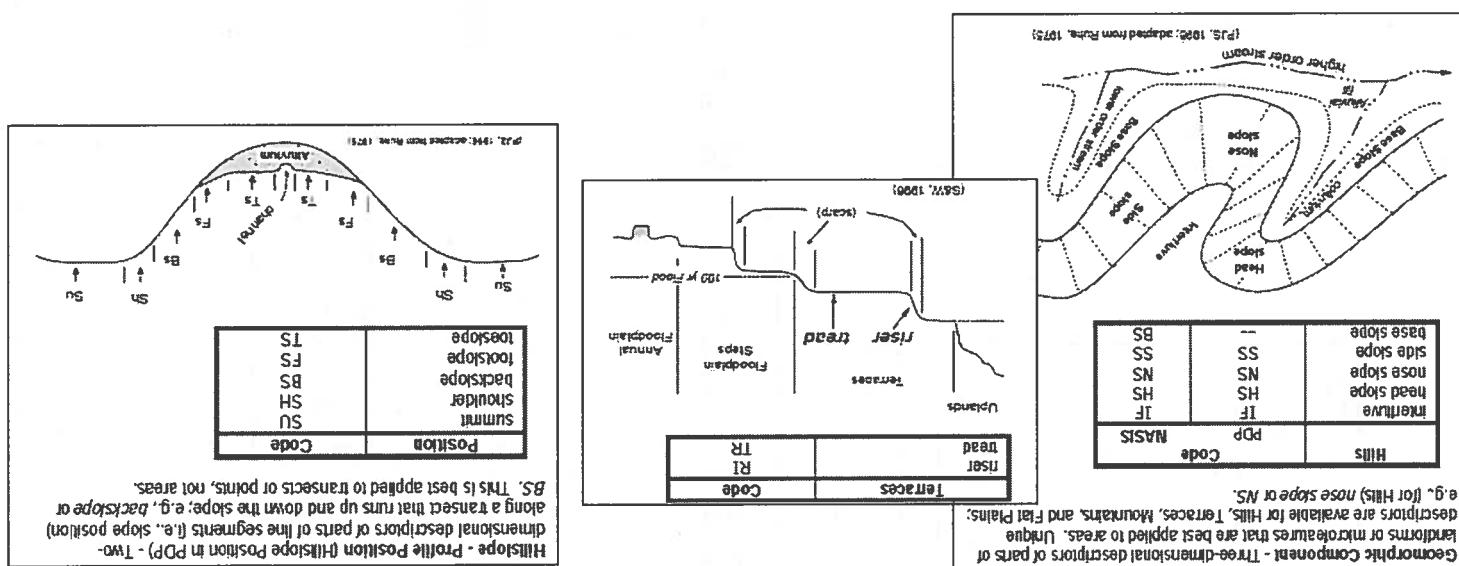
COVER BY STRATA
 Estimate using midpoints of 5,x:3, 8, 13 %

SOIL DEPTH MEASUREMENT: Measure to the nearest 0.1 cm in center of intensive modules. If >30.5 cm, record as >30		
1 litter+ organic depth (cm)	2 litter depth (cm)	water depth (cm)
mod#	depth sat (cm)	soil (cm)
2	2.1	2.1
3	3.2	2.4
4	3.8	3.1
9	2.9	2.5

STAND SIZE		
Strata	Height Range (m)	Total Cover (%)
Tree	<u>5 - 0.0</u>	<u>43</u>
Shrub	<u>0.5 - 3</u>	<u>73</u>
Herb	<u>X - 0.5</u>	<u>48</u>
(Floating)*	-	-
(Aquatic)*	-	-

- * refer to texture classes on reverse side
- ** e.g. hydrogen sulfide odor, geysering, etc.
- *** Circle one:
I=Inundated S=Saturated M= moist D=dry
- Notes: include evidence of earthworms (worms, castings, middens)
- No evidence of worms
- SEE BACK OF PAGE FOR "TYPICAL" STRATA
- DESCRIPTIONS. STRATA CAN VARY BY COVER TYPE.

UNKNOWN: The hydrologic regime cannot be determined from the available information.
PERMANENTLY FLOODED: Water covers the land surface at all times of the year in all years. Equivalent to Cowardin's "permanently flooded".
SEMI-PERMANENTLY 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 Semi-permanently Flooded models.
INTERMITTENTLY FLOODED: Substrate is usually exposed, but surface water can be present for variable periods without detectable flooding. Intensity of flooding can be applied to both wetland and non-wetland situations. Equivalent to Cowardin's "intermittently flooded model".
TEMPORARILY FLOODED: Often characterizes floodplain levees and lower terraces. Equivalent to Cowardin's "temporarily lies well below soil surface". Often characterized by brief periods during growing season, but water table usually lies well below soil surface.
OCCLUSIALLY FLOODED: Surface water can be present for brief periods during growing season, but not in most years. Often saturated to surface for extended periods during the growing season. Equivalent to Cowardin's "subsaturated model".
PERMANENTLY/SEMI-PERMANENTLY SATURATED: Dry less than once per year. Surface water is seldom present, but substrate is saturated for extended periods during the growing season.
UPLAND: Not a wetland. Very rarely flooded.
HYDROLOGIC REGIME Modified from Grossman et al 1998. (Frequency and duration of flooding)



STANDING BIOMASS (required for emergent wetlands) collected in 0 in clip plots (3x2.2 cm) from corners 1 and 3 in each intensive module. Required for VIBI-E score calculation. C? = check when collected

Module # C? Corner corner

Module # C? Corner corner

CLASSIFICATION

(Fit = excellent; & Fit and Confidence

Hydrogeomorphic class WETLANDS ONLY:

□ DEPRESSION	Fit= _____	Conf= _____
□ IMPOUNDMENT □ Beaver □ Human	Fit= _____	Conf= _____
□ RIVERINE □ Headwater □ Mainstem □ Channel	Fit= _____	Conf= _____
□ SLOPE (ground water hydrology or on a physical slope)	Fit= _____	Conf= _____
□ FRINGING □ Reservoir □ Natural Lake	Fit= _____	Conf= _____
□ COASTAL (specify subclass)	Fit= _____	Conf= _____
□ BOG (strongly, moderately, weakly ombrotrophic)	Fit= _____	Conf= _____
□ FOREST □ swamp forest □ bog forest □ forest open bog	Fit= _____	Conf= _____
□ EMERGENT □ marsh □ wet meadow □ tall sh. bog	Fit= _____	Conf= _____
□ SHRUB □ shrub swamp □ tall sh. bog □ tall sh. fen	Fit= _____	Conf= _____

Ohio EPA VIBI Plant Community Class WETLANDS ONLY:

□ FOREST □ swamp forest □ bog forest □ forest open bog	Fit= _____	Conf= _____
□ EMERGENT □ marsh □ wet meadow □ tall sh. bog	Fit= _____	Conf= _____
□ SHRUB □ shrub swamp □ tall sh. bog □ tall sh. fen	Fit= _____	Conf= _____

MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only

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

Slope 1 = slight elevational grade across module (hill)

Slope 2 = falls on slope ~20°

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

0 feature is absent or functionally absent 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.	microhab.
depth 3	depth 2	depth 1	depth 1	depth 1	depth 1	depth 1	depth 1	SLOPE
1x1m	3.1x3.1cm	1x1cm	10x10m	10x10m	10x10m	10x10m	10x10m	10x10m
med#	corner	(count)	(count)	(count)	(count)	(rank)	(rank)	(rank)
2	Ø	3	8	1	Ø	4	1	
3	Ø	Ø	4	17	Ø	4	1	
8	Ø	Ø	1	21	Ø	4	+	Ø
9	Ø	Ø	2	15	Ø	4	+	Ø

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

MCNAB INDICES (degrees) + for up - for down					
LFI* TSI**					
Module	N	S	E	W	LFI is angle of plot to the horizon. TSI is angles formed by local slopes. For TSI measure angle from recorder's eye to eye of person standing ~10 m away.
2	11	16	2	9	+45 degrees
3	6	Ø	18	7	+90 degrees
8	2	6	3	1	+135 degrees
9	5	5	Ø	10	+180 degrees

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

CROWN COVER (DENSIMETER) Make 4 readings per module along N, S, E, W. Place dot count in corresponding space. (4 dots per grid square)					
Module	N	S	E	W	
2	11	16	2	9	
3	6	Ø	18	7	
8	2	6	3	1	
9	5	5	Ø	10	

Subtotal

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.

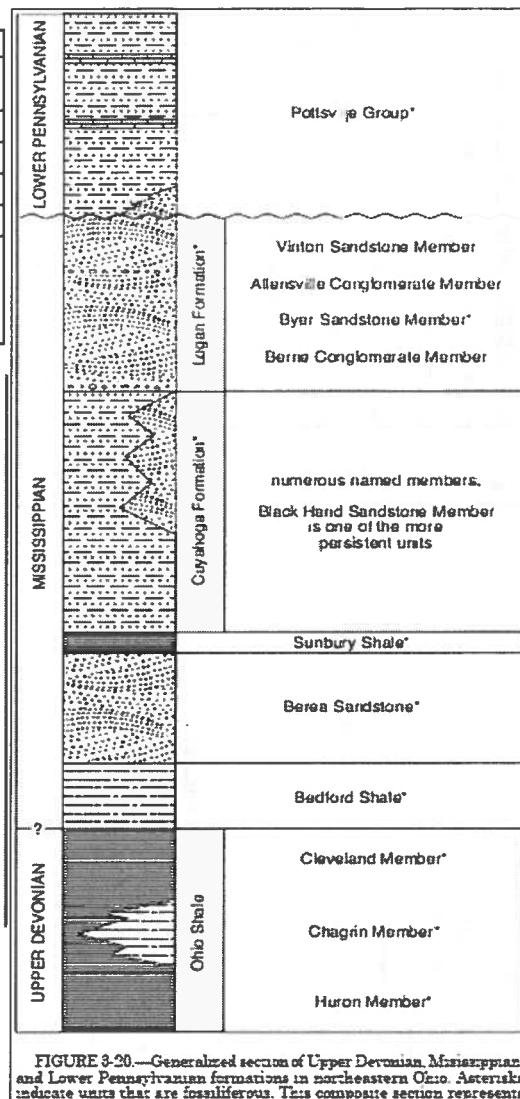
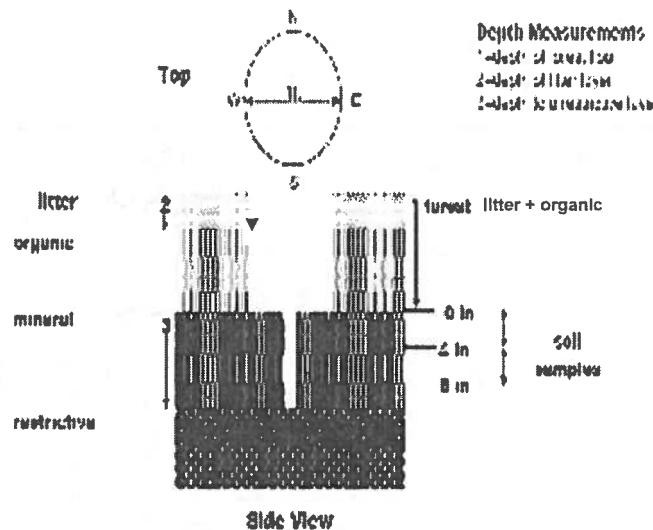


FIGURE 3-20.—Generalized section of Upper Devonian, Mississippian, and Lower Pennsylvanian formations in northeastern Ohio. Asterisks indicate units that are fossiliferous. This composite section represents about 400 meters of rock exposed across the area. The section is not to scale, but the thicknesses 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: 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					
Celastrus orbiculatus (vine)	Asian Bittersweet					
Torilis sp.	Hedgeparsley					
Conium maculatum	Poison Hemlock					
Rhamnus cathartica	Common Buckthorn (shrub)					
Berberis thunbergii	Japanese Barberry (shrub)	/	/	i	/	
Alnus glutinosa	European Alder					
Dipsacus laciniatus	Cut-leaf Teasel					
Elaeagnus umbellata	Autumn Olive (shrub)					
Lonicera maackii	Amur Honeysuckle (shrub)	5	5	3	5	
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					
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	4	3	3	2	
Ligustrum vulgare	Common Privet (shrub)	2	2	1	2	
L. morrowii, L. tatarica	Bush Honeysuckles (shrub)	1	1	1		
Phalaris arundinacea	Reed Canarygrass		2		4	
Phragmites australis (wetland)	Phragmites		3			
Polygonum cuspidatum	Japanese Knotweed					
Frangula alnus	Glossy Buckthorn (shrub)				1	
Rosa multiflora	Multiflora Rose (shrub)	4	4	3	2	
Typha angustifolia, T. x glauca	Cattails (wetland)					
Cirsium arvense	Canada thistle					
Dipsacus fullonum	Common Teasel					
Hesperis matronalis	Dame's Rocket					
Vinca minor (G-cover)	Periwinkle					

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 Emerald Ash Borer - *Fraxinus* Sheet

Project Label: PCAP Project Name: DB-2012

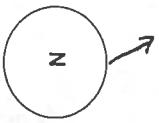
INTENSIVE MODULES ONLY 27 TREES ≥ 10CM ONLY Plot No.: 1299 Date: 8/27/2012

Page: 1 of 2

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

*** Change intensive module numbers when necessary

Baseline	
9	8
2	3



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

- * If Ash Condition scores 5 (dead) provide breakup score (A-E)
- Count EAB exit holes 1.25m² x 27.5m
- Woodpecker and epicormic marked present (1) or absent (0)

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): _____

Site ID: PCAP Br 1d 99

DATE: 08/22/2012

Location:

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

AA Center O N O S 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			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			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-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			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			Herbs, Forbs and Grasses	0 1 2 3 4			
Bare ground	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			Litter, duff	0 1 2 3 4			
Rock	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			Water	0 1 2 3 4			
Submerged Vegetation	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 1 2 3				Ditches, Channelization	0	0	0		Pasture/Hay	0	0	0		
Road - two lane	0 1 2 3				Dike/Dam/Road/RR Bed (IMPEDE FLOW)	0	0	0		Range	0	0	0		
Road - four lane	0 1 2 3				Water Level Control Structure	0	0	0		Row Crops	0	0	0		
Parking Lot/Pavement	0 1 2 3				Excavation, Dredging	0	0	0		Fallow Field (RECENT-RESTING ROW CROP FIELD)	0	0	0		
Golf Course	0 1 2 3				Fill/Spoil Banks	0	0	0		Fallow Field (OLD - GRASS, SHRUBS, TREES)	0	0	0		
Lawn/Park	0 1 2 3				Freshly Deposited Sediment (UNVEGETATED)	0	0	0		Nursery	0	0	0		
Suburban Residential	0 1 2 3				Soil Loss/Root Exposure	0	0	0		Dairy	0	0	0		
Urban/Multifamily	0 1 2 3				Wall/Riprap	0	0	0		Orchard	0	0	0		
Landfill	0 1 2 3				Inlets, Outlets	0	0	0		Confined Animal Feeding	0	0	0		
Dumping	0 1 2 3				Point Source/Pipe (EFFLUENT OR STORMWATER)	0	0	0		Rural Residential	0	0	0		
Trash	0 1 2 3				Impervious surface input (SHEETFLOW)	0	0	0		Gravel Pit	0	0	0		
Other: _____	0 1 2 3				Other: _____	0	0	0		Irrigation	0	0	0		
Other: _____	0 1 2 3				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 1 2 3				Forest Clear Cut	0	0	0		Herbicide Use	0	0	0		
Gas Wells	0 1 2 3				Forest Selective Cut	0	0	0		Mowing/Shrub Cutting	0	0	0		
Mine (surface)	0 1 2 3				Tree Plantation	0	0	0		Trails	0	0	0	/	
Mine (underground)	0 1 2 3				Tree Canopy Herbivory (INSECT)	0	0	0		Soil Compaction (ANIMAL OR HUMAN)	0	0	0		
Military	0 1 2 3				Shrub Layer Browsed (WILD OR DOMESTIC)	0 1	0	0		Offroad vehicle damage	0	0	0		
Other: _____	0 1 2 3				Highly Grazed Grasses (OVERALL <3" HIGH)	0	0	0		Soil erosion (FROM WIND, WATER, OR OVERUSE)	0	0	0		
Other: _____	0 1 2 3				Recently Burned Forest Canopy	0	0	0		Other: _____	0	0	0		
Other: _____	0 1 2 3				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

PLOT COORDINATES																																																																																							
Fill bubble if present - Plot 1 2 3 Flag Fill bubble if present - Plot 1 2 3 Flag Fill bubble if present - Plot 1 2 3 Flag Fill bubble if present - Plot 1 2 3 Flag Fill bubble if present - Plot 1 2 3 Flag																																																																																							
② Confirm a filled data bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble																																																																																							
Site ID: CLAPCR2012 DATE: 09/23/2012																																																																																							
FORM B-1: BUFFER SAMPLE PLOTS - TARGETED ALIEN SPECIES (Back)																																																																																							
Reviewed by (initials):																																																																																							
③ 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 coordinates (choose one):																																																																																							
<input type="checkbox"/> AA CENTER <input type="checkbox"/> S3 <input type="checkbox"/> E3 <input type="checkbox"/> W3 <input type="checkbox"/> Nearest practicable location (flag and comment below)																																																																																							
Latitude North 41 Longitude West 39.9444 Use Decimal Degrees; NAD83																																																																																							
<table border="1"> <tr> <td>Flag</td> <td colspan="11">Comments</td> </tr> <tr> <td></td> <td colspan="11"><i>less than</i></td> </tr> </table>												Flag	Comments												<i>less than</i>																																																														
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	<i>less than</i>																																																																																						
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.																																																																																							
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PLOT COORDINATES																																																																																							
Eurasian Watermilfoil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Purple Loosestrife	<input type="checkbox"/>	<input type="checkbox"/>	Johnson Grass	<input type="checkbox"/>	<input type="checkbox"/>	Kudzu	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Multiflora Rose	<input type="checkbox"/>	<input type="checkbox"/>	Common Buckthorn	<input type="checkbox"/>	<input type="checkbox"/>	Giant Reed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Perennial Pepperweed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Giant Salsify	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Japanese Knotweed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yellow Floating Heart	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Water Hyacinth	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Knotweed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Common Blackberry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Poison Hemlock	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cheatgrass	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mile-A-Minute Weed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Reed Canary Grass	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Birdsfoot Trefoil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Common Reed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Canada Thistle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Leary Spurge	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): _____

Site ID: PCAP Br 1299

DATE: 08/22/2012

Location: O AA Center O N O S O E O W

Fill in bubble(s) if plot(s) could not be sampled and flag →
 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: <input type="radio"/>	Buffer Plot 2	Canopy Type: D E		Absent: <input type="radio"/>	Buffer Plot 3	Canopy Type: D E		Absent: <input type="radio"/>
	Leaf Type: B N	Flag: <input type="radio"/>	Leaf Type: B N		Leaf Type: B N	Flag: <input type="radio"/>	Leaf Type: B N		Leaf Type: B N	Flag: <input type="radio"/>	
Big Trees (>0.3m DBH)	<input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 <input checked="" type="radio"/> 5 <input type="radio"/> 6		<input type="radio"/>	Big Trees (>0.3m DBH)	<input checked="" type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input checked="" type="radio"/> 5 <input type="radio"/> 6		<input type="radio"/>	Big Trees (>0.3m DBH)	<input checked="" type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 5		
Small Trees (<0.3m DBH)	<input checked="" type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input checked="" type="radio"/> 5 <input type="radio"/> 6		<input type="radio"/>	Small Trees (<0.3m DBH)	<input checked="" type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input checked="" type="radio"/> 5 <input type="radio"/> 6		<input type="radio"/>	Small Trees (<0.3m DBH)	<input checked="" type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input checked="" type="radio"/> 5 <input type="radio"/> 6		
Woody Shrubs, Saplings (0.5m-5m HIGH)	<input checked="" type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input checked="" type="radio"/> 5 <input type="radio"/> 6		<input type="radio"/>	Woody Shrubs, Saplings (0.5m-5m HIGH)	<input checked="" type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input checked="" type="radio"/> 5 <input type="radio"/> 6		<input type="radio"/>	Woody Shrubs, Saplings (0.5m-5m HIGH)	<input checked="" type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input checked="" type="radio"/> 5 <input type="radio"/> 6		
Woody Shrubs, Saplings (<0.5m HIGH)	<input checked="" type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input checked="" type="radio"/> 5 <input type="radio"/> 6		<input type="radio"/>	Woody Shrubs, Saplings (<0.5m HIGH)	<input checked="" type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input checked="" type="radio"/> 5 <input type="radio"/> 6		<input type="radio"/>	Woody Shrubs, Saplings (<0.5m HIGH)	<input checked="" type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input checked="" type="radio"/> 5 <input type="radio"/> 6		
Herbs, Forbs and Grasses	<input checked="" type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input checked="" type="radio"/> 5 <input type="radio"/> 6		<input type="radio"/>	Herbs, Forbs and Grasses	<input checked="" type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input checked="" type="radio"/> 5 <input type="radio"/> 6		<input type="radio"/>	Herbs, Forbs and Grasses	<input checked="" type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input checked="" type="radio"/> 5 <input type="radio"/> 6		
Bare ground	<input checked="" type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input checked="" type="radio"/> 5 <input type="radio"/> 6		<input type="radio"/>	Bare ground	<input checked="" type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input checked="" type="radio"/> 5 <input type="radio"/> 6		<input type="radio"/>	Bare ground	<input checked="" type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input checked="" type="radio"/> 5 <input type="radio"/> 6		
Litter, duff	<input checked="" type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input checked="" type="radio"/> 5 <input type="radio"/> 6		<input type="radio"/>	Litter, duff	<input checked="" type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input checked="" type="radio"/> 5 <input type="radio"/> 6		<input type="radio"/>	Litter, duff	<input checked="" type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input checked="" type="radio"/> 5 <input type="radio"/> 6		
Rock	<input checked="" type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input checked="" type="radio"/> 5 <input type="radio"/> 6		<input type="radio"/>	Rock	<input checked="" type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input checked="" type="radio"/> 5 <input type="radio"/> 6		<input type="radio"/>	Rock	<input checked="" type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input checked="" type="radio"/> 5 <input type="radio"/> 6		
Water	<input checked="" type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input checked="" type="radio"/> 5 <input type="radio"/> 6		<input type="radio"/>	Water	<input checked="" type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input checked="" type="radio"/> 5 <input type="radio"/> 6		<input type="radio"/>	Water	<input checked="" type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input checked="" type="radio"/> 5 <input type="radio"/> 6		
Submerged Vegetation	<input checked="" type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input checked="" type="radio"/> 5 <input type="radio"/> 6		<input type="radio"/>	Submerged Vegetation	<input checked="" type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input checked="" type="radio"/> 5 <input type="radio"/> 6		<input type="radio"/>	Submerged Vegetation	<input checked="" type="radio"/> 1 <input type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input checked="" type="radio"/> 5 <input type="radio"/> 6		

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 checked="" type="radio"/> <input type="radio"/>				Ditches, Channelization	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>				Pasture/Hay	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>			
Road - two lane	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>				Dike/Dam/Road/RR Bed (IMPEDE FLOW)	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>				Range	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>			
Road - four lane	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>				Water Level Control Structure	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>				Row Crops	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>			
Parking Lot/Pavement	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>				Excavation, Dredging	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>				Fallow Field (RECENT-RESTING ROW CROP FIELD)	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>			
Golf Course	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>				Fill/Spoil Banks	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>				Fallow Field (OLD - GRASS, SHRUBS, TREES)	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>			
Lawn/Park	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>				Freshly Deposited Sediment (UNVEGETATED)	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>				Nursery	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>			
Suburban Residential	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>				Soil Loss/Root Exposure	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>				Dairy	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>			
Urban/Multifamily	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>				Wall/Riprap	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>				Orchard	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>			
Landfill	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>				Inlets, Outlets	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>				Confined Animal Feeding	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>			
Dumping	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>				Point Source/Pipe (EFFLUENT OR STORMWATER)	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>				Rural Residential	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>			
Trash	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>				Impervious surface input (SHEETFLOW)	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>				Gravel Pit	<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"/>				Irrigation	<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"/>				Other: _____	<input type="radio"/> <input checked="" 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 checked="" type="radio"/> <input type="radio"/>				Forest Clear Cut	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>				Herbicide Use	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>			
Gas Wells	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>				Forest Selective Cut	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>				Mowing/Shrub Cutting	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>			
Mine (surface)	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>				Tree Plantation	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>				Trails	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>			
Mine (underground)	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>				Tree Canopy Herbivory (INSECT)	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>				Soil Compaction (ANIMAL OR HUMAN)	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>			
Military	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>				Shrub Layer Browsed (WILD OR DOMESTIC)	<input checked="" type="radio"/> <input type="radio"/> <input type="radio"/>				Offroad vehicle damage	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>			
Other: _____	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>				Highly Grazed Grasses (OVERALL <3" HIGH)	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>				Soil erosion (FROM WIND, WATER, OR OVERUSE)	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>			
Other: _____	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>				Recently Burned Forest Canopy	<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"/>				Recently Burned Grassland (BLACKENED)	<input type="radio"/> <input checked="" type="radio"/> <input type="radio"/>				Other: _____	<input type="radio"/> <input checked="" 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

Site ID: 081-221-2012			DATE: 08/20/12				
FORM B-1: BUFFER SAMPLE PLOTS - TARGETED ALIEN SPECIES (Back)							
Reviewed by (Initials):							
④ 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							
Eurasian Watermilfoil	<input type="checkbox"/>	<input type="checkbox"/>	Purple Loosestrife	<input type="checkbox"/>	Johnson Grass	<input type="checkbox"/>	<input type="checkbox"/>
Water Hyacinth	<input type="checkbox"/>	<input type="checkbox"/>	Knotweed	<input type="checkbox"/>	Kudzu	<input type="checkbox"/>	<input type="checkbox"/>
Yellow Floating Heart	<input type="checkbox"/>	<input type="checkbox"/>	Japanese Knotweed	<input type="checkbox"/>	Multiflora Rose	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Giant Salvinia	<input type="checkbox"/>	<input type="checkbox"/>	Pereennial Pepperweed	<input type="checkbox"/>	Common Buckthorn	<input type="checkbox"/>	<input type="checkbox"/>
Garlic Mustard	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Giant Reed	<input type="checkbox"/>	Himalayan Blackberry	<input type="checkbox"/>	<input type="checkbox"/>
Polygonum	<input type="checkbox"/>	<input type="checkbox"/>	Cheatgrass	<input type="checkbox"/>	Tamarike	<input type="checkbox"/>	<input type="checkbox"/>
Mile-A-Minute Weed	<input type="checkbox"/>	<input type="checkbox"/>	Reed Canary Grass	<input type="checkbox"/>	Other	<input type="checkbox"/>	<input type="checkbox"/>
Birdsfoot Trefoil	<input type="checkbox"/>	<input type="checkbox"/>	Common Reed	<input type="checkbox"/>	Other	<input type="checkbox"/>	<input type="checkbox"/>
Canada Thistle	<input type="checkbox"/>	<input type="checkbox"/>	Leafy Spurge	<input type="checkbox"/>	Other	<input type="checkbox"/>	<input type="checkbox"/>
Provide GPS coordinates at the center of the Buffer Plot (#3) at the far end of each Buffer Transect and for the Buffer Plot at the AA CENTER. Indicate the location of 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 plot 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 tag box, and describe where the Buffer Transects 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):							
<input type="checkbox"/> AA CENTER <input type="checkbox"/> N3 <input type="checkbox"/> S3 <input type="checkbox"/> E3 <input type="checkbox"/> W3 <input type="checkbox"/> Nearest practicable location (flag and comment below)							
Latitude North 41.84520 Longitude West 57.323 Use Decimal Degrees; NAD83							
Flag							
Comments							

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (initial): _____

Site ID: PCAP B5 1299

DATE: 07/22/2012

Location:

O AA Center O N O S O E O W

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

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: <input type="radio"/>	Buffer Plot 2	Canopy Type: D E		Absent: <input type="radio"/>	Buffer Plot 3	Canopy Type: D E		Absent: <input type="radio"/>
	Leaf Type: B N	Flag	Leaf Type: B N		Leaf Type: B N	Flag	Leaf Type: B N		Leaf Type: B N	Flag	
Big Trees (>0.3m DBH)	<input type="radio"/>	<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"/>
Small Trees (<0.3m DBH)	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<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 checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" 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 checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Herbs, Forbs and Grasses	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<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 checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<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 checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" 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"/>	<input checked="" 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"/>	<input checked="" 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"/>	<input checked="" 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 checked="" 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 checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
Military	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Shrub Layer Browsed (WILD OR DOMESTIC)	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		Offroad vehicle damage	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Highly Grazed Grasses (OVERALL <1 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

7966623548

FORM B-1: BUFFER SAMPLE PLOTS - TARGETED ALIEN SPECIES (Back)											
Site ID: 1C88C0012											Date: 07/21/2012
Reviewed by (Initials):											
<input type="checkbox"/> Confirm a filled data bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble											
Fill bubble if present - Plot 1 2 3 Flag Fill bubble if present - Plot 1 2 3 Flag Eurasian Watermilfoil <input type="checkbox"/> <input type="checkbox"/> Purple Loosestrife <input type="checkbox"/> <input type="checkbox"/> Johnson Grass <input type="checkbox"/> <input type="checkbox"/> Kudzu Water Hyacinth <input type="checkbox"/> <input type="checkbox"/> Knotweed <input type="checkbox"/> <input type="checkbox"/> Japanese Knotweed <input type="checkbox"/> <input type="checkbox"/> Multiflora Rose Yellow Floating Heart <input checked="" type="checkbox"/> <input type="checkbox"/> Perennial Pepperweed <input type="checkbox"/> <input type="checkbox"/> Common Buckthorn Giant Salvinia <input type="checkbox"/> <input type="checkbox"/> Giant Reed <input type="checkbox"/> <input type="checkbox"/> Himalayan Blackberry Garlic Mustard <input checked="" type="checkbox"/> <input type="checkbox"/> Cheatgrass <input type="checkbox"/> <input type="checkbox"/> Tamarike Mill-A-Minute Weeds <input type="checkbox"/> <input type="checkbox"/> Reed Canary Grass <input type="checkbox"/> <input type="checkbox"/> Other Birdsfoot Trefoil <input type="checkbox"/> <input type="checkbox"/> Common Reed <input type="checkbox"/> <input type="checkbox"/> Leafy Spurge Canada Thistle <input type="checkbox"/> <input type="checkbox"/> Other <input type="checkbox"/> <input type="checkbox"/> Other AA CENTER <input type="radio"/> N3 <input type="radio"/> S3 <input checked="" type="radio"/> E3 Nearest practicable location (flag and comment below)											
Provide GPS coordinates at the center of the Buffer Plot (#3) at the far end of each Buffer Transect and for the Buffer Plot at the AA CENTER. Indicate the location of coordinates (choose one): Flag											
Latitude North 41.34466 Longitude West 081.59167 Use Decimal Degrees; NAD83											
Buffer Plot 3 can not be accessed, take the nearest practicable location ALONG THE TRANSECT. This is important because all Buffer Plots are centered on the Buffer Transects and the coordinates will indicate the location of the transect. Fill in the "nearest practicable location" bubble, fill in the flag box, and describe where the Buffer Transects 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. 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 Buffer Transects were taken and why in the comment section below. The coordinates of the nearest practicable location can be either placed as close to the center of Plot 3 as possible or at the center of the last accessible Buffer Plot.											
Provide GPS coordinates at the center of the Buffer Plot by filling in the appropriate bubble.											
Plot 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 coordinates (choose one): Flag											
Latitude North 41.34466 Longitude West 081.59167 Use Decimal Degrees; NAD83											
AA CENTER <input type="radio"/> N3 <input type="radio"/> S3 <input checked="" type="radio"/> E3 Nearest practicable location (flag and comment below)											
Comments Flag											

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): _____

Site ID: PCAP Br 5295

DATE: 08/22/2012

Location:	Fill in bubble(s) if plot(s) could not be sampled and flag →									
○ AA Center ○ N ○ S ○ E ○ W	○ Plot 1	○ Plot 2	○ Plot 3							

Buffer Natural Cover Strata

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

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

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

PLOT COORDINATES											
Fill bubble if present - Plot			Fill bubble if present - Plot			Fill bubble if present - Plot			Fill bubble if present - Plot		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Eurasian Watermilfoil	<input type="checkbox"/>	<input type="checkbox"/>	Purple Loosestrife	<input type="checkbox"/>	<input type="checkbox"/>	Johnson Grass	<input type="checkbox"/>	<input type="checkbox"/>	Kudzu	<input type="checkbox"/>	<input type="checkbox"/>
Yellow Flagging Heart	<input type="checkbox"/>	<input type="checkbox"/>	Knotweed	<input type="checkbox"/>	<input type="checkbox"/>	Multiflora Rose	<input type="checkbox"/>	<input type="checkbox"/>	Perennial Pepperweed	<input type="checkbox"/>	<input type="checkbox"/>
Giant Salvinia	<input type="checkbox"/>	<input type="checkbox"/>	Japanese Knotweed	<input type="checkbox"/>	<input type="checkbox"/>	Common Buckthorn	<input type="checkbox"/>	<input type="checkbox"/>	Giant Reed	<input type="checkbox"/>	<input type="checkbox"/>
Garlic Mustard	<input type="checkbox"/>	<input type="checkbox"/>	Perennial Pepperweed	<input type="checkbox"/>	<input type="checkbox"/>	Himalayan Blackberry	<input type="checkbox"/>	<input type="checkbox"/>	Cheatgrass	<input type="checkbox"/>	<input type="checkbox"/>
Poison Hemlock	<input type="checkbox"/>	<input type="checkbox"/>	Giant Reed	<input type="checkbox"/>	<input type="checkbox"/>	Tamarisk	<input type="checkbox"/>	<input type="checkbox"/>	Mille-aine Weed	<input type="checkbox"/>	<input type="checkbox"/>
Mille-A-minute Weed	<input type="checkbox"/>	<input type="checkbox"/>	Reed Canary Grass	<input type="checkbox"/>	<input type="checkbox"/>	Other:	<input type="checkbox"/>	<input type="checkbox"/>	Birdsfoot Trefoil	<input type="checkbox"/>	<input type="checkbox"/>
Birdsfoot Trefoil	<input type="checkbox"/>	<input type="checkbox"/>	Common Reed	<input type="checkbox"/>	<input type="checkbox"/>	Other:	<input type="checkbox"/>	<input type="checkbox"/>	Canada Thistle	<input type="checkbox"/>	<input type="checkbox"/>
Mile-A-Minute Weed	<input type="checkbox"/>	<input type="checkbox"/>	Reed Canary Grass	<input type="checkbox"/>	<input type="checkbox"/>	Other:	<input type="checkbox"/>	<input type="checkbox"/>	Leaky Spurge	<input type="checkbox"/>	<input type="checkbox"/>
Poison Hemlock	<input type="checkbox"/>	<input type="checkbox"/>	Cheatgrass	<input type="checkbox"/>	<input type="checkbox"/>	Other:	<input type="checkbox"/>	<input type="checkbox"/>	Other:	<input type="checkbox"/>	<input type="checkbox"/>
Provide GPS coordinates at the center of the Buffer Plot (#3) at the far end of each Buffer Transect and for the Buffer Plot at the AA CENTER. Indicate the location of the plot coordinates by filling in the appropriate bubble.											
If Buffer Plot 3 can not be accessed, take the nearest practicable location ALONG THE TRANSECT. This is important because all Buffer Plots are centered on the Buffer Transects and the coordinates will indicate the location of the transect. Fill in the "nearest practicable location" 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 to the center of Plot 3 as possible or at the center of the last accessible Buffer Plot.											
Location of coordinates (choose one):											
Flag	Comments										
	Use Decimal Degrees; NAD83										
	Latitude North 41.34435 Longitude West 081.59338										
<input checked="" type="checkbox"/> AA CENTER <input type="checkbox"/> S3 <input type="checkbox"/> E3 <input type="checkbox"/> W3 <input checked="" type="checkbox"/> Nearest Practicable Location (flag and comment below)											

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): _____

Site ID: PCAP Br 1299

DATE: 08/22/2012

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

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

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

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

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

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

2428168304

PLOT COORDINATES											
Flag			Flag			Flag			Flag		
<input type="checkbox"/> AA CENTER	<input type="checkbox"/> N3	<input type="checkbox"/> S3	<input type="checkbox"/> E3	<input type="checkbox"/> W3	<input checked="" type="checkbox"/> Nearest practicable location (flag and comment below)						
Provide GPS coordinates at the center of the Buffer Plot (#3) at the far end of each Buffer Transect and for the Buffer Plot at the AA CENTER. Indicate the location of coordinates (choose one):											
Latitude North <u>41.34435</u> Longitude West <u>0.81.59.33.8</u> Use Decimal Degrees; NAD83											
Flag											
If Buffer Plot 3 can not be accessed, take the nearest practicable location ALONG THE TRANSECT. This is important because all Buffer Plots are centered on the Buffer Transects and the coordinates will indicate the location of the transect. Fill in the "nearest practicable location" 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. Plots 2 and 3 are further along the Buffer Transects than Plot 1, so plot 1 is probably the last accessible Buffer Plot.											
Provide GPS coordinates at the center of the Buffer Plot (#3) at the far end of each Buffer Transect and for the Buffer Plot at the AA CENTER. Indicate the location of coordinates (choose one):											
Latitude North <u>41.34435</u> Longitude West <u>0.81.59.33.8</u> Use Decimal Degrees; NAD83											
Comments											
<u>Plot 2 and 3 off in property line</u> <u>second door or fur 1, 6 property line</u> <u>near fence</u>											

PLOT COORDINATES											
Flag			Flag			Flag			Flag		
<input type="checkbox"/> AA CENTER	<input type="checkbox"/> N3	<input type="checkbox"/> S3	<input type="checkbox"/> E3	<input type="checkbox"/> W3	<input checked="" type="checkbox"/> Nearest practicable location (flag and comment below)						
Provide GPS coordinates at the center of the Buffer Plot (#3) at the far end of each Buffer Transect and for the Buffer Plot at the AA CENTER. Indicate the location of coordinates (choose one):											
<input type="checkbox"/> Canada Thistle	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> Leafy Spurge	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> Other
<input type="checkbox"/> Birdfoot Trefoil	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> Common Reed	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> Other
<input type="checkbox"/> Mile-A-Minute Weed	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> Reed Canary Grass	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> Other
<input type="checkbox"/> Poison Hemlock	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> Cheatgrass	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> Tamarisk
<input type="checkbox"/> Garlic Mustard	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> Giant Reed	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> Himalayan Blackberry
<input type="checkbox"/> Giant Salvinia	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> Perennital Pepperweed	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> Common Buckthorn
<input type="checkbox"/> Yellow Flowering Heart	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> Japanese Knotweed	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> Multiflora Rose
<input type="checkbox"/> Water Hyacinth	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> Knotweed	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> Kudzu
<input type="checkbox"/> Eurasian Watermilfoil	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> Purple Loosestrife	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> O	<input type="checkbox"/> Johnson Grass
<input type="checkbox"/> Fill bubble if present - Plot 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> Flag	<input type="checkbox"/> Fill bubble if present - Plot 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> Flag	<input type="checkbox"/> Fill bubble if present - Plot 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> Flag

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

Site ID: PCAPBC0012 DATE: 07/23/12

Retrieved by (initial):

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