

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

Project Label:

PCAP



Plot No: 1383 Date Sampled: 08/22/13 Lead: SJC

Parking/Access outside of Park Boundaries:		Y	N	Comment required if item answer is NO If yes, write details in Comments section below
Field journals completed		<input checked="" type="radio"/>	N	
Site sketch made on 1:3000 map?		<input checked="" type="radio"/>	N	
Check cover page	X-axis Bearing of plot recorded	<input checked="" type="radio"/>	N	
	GPS coords Recorded	<input checked="" type="radio"/>	N	
	North direction recorded	<input checked="" type="radio"/>	N	
	Photographs taken?	<input checked="" type="radio"/>	N	
Plot No., Date agreement on all pages?		<input checked="" type="radio"/>	N	
Header data completed all pages?		<input checked="" type="radio"/>	N	
Cover classes recorded in all Intensive modules		<input checked="" type="radio"/>	N	
Browse Level By Species		<input checked="" type="radio"/>	N	
Woody stem quality control check		<input checked="" type="radio"/>	N	
Invasive plant quality control check		<input checked="" type="radio"/>	N	
Ash trees mapped		<input checked="" type="radio"/>	N	
Cover by Strata? (confirm cover type)		<input checked="" type="radio"/>	N	
Soil samples collected with matching plot #.		<input checked="" type="radio"/>	N	
Vouchers labeled on datasheet with initials and number		<input checked="" type="radio"/>	N	
Vouchers labeled on collection bag		<input checked="" type="radio"/>	N	
Pink flags removed		<input checked="" type="radio"/>	N	
Data sheet QA before leaving site?		<input checked="" type="radio"/>	N	
Common equipment returned to tub.		<input checked="" type="radio"/>	N	
Data sheets scanned?		9-3-2013		Enter date to left CL
Final data sheets scanned?				Enter date to left
Buffer Widths measured?		<input checked="" type="radio"/>	N	
Web Soil Survey		<input checked="" type="radio"/>	N	CL 6-28 RSE 23Aug2013
Voucher Location (# vouchers collected)  SJC-252- 271	Refrigerator	<input checked="" type="radio"/>	N	
	Press (#)			Enter number to left
	Drier	<input checked="" type="radio"/>	N	
	Identified	<input checked="" type="radio"/>	N	
	Mounted	<input checked="" type="radio"/>	N	
	Thrown away	<input checked="" type="radio"/>	N	

## GRTS point verification: Is plot sampleable?

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

## Additional Comments:





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

Page 2 of 2

Plot No.: 1383

Project Name: 01Be2013

Project Label: PCAP

**MODIFIED NATURE RESERVE CLASS\***

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

Con= \_\_\_\_\_

LD 1  
SRT 1-23-13

CODE (on separate form):  
T

Community Name:  
Mixed  
Floodplain

**HOMOGENEITY**

Homogeneous

Conspicuous inclusions

Irregular/pattern mosaic

**HYDROLOGIC REGIME\***

Upland (seldom flooded)

Intermittently flooded

Semipermanently flooded  
(seldom flooded)

Permanently flooded

Tidal/Seiche flooded daily

Tidal/Seiche flooded monthly

Tidal/Seiche flooded irregular  
(e.g. wind, storms)

Temporarily flooded

Unknown

(by default unless plot is a wetland)

**Additional notes & diagrams:** (Representativeness of plot to the stand, successional status, maturity, etc.)  
Mod 5 had a conspicuous inclusion of a light gap. Not many new species resulted, just *Artemesia*, *Verbesina*, and one *Lionweed*. Browse was minimal. Also, some of the oxbow came into later mode introducing pine and rock.

**MODIFICATIONS**

DISTURBANCES	
type*	severity**
Human	L
Natural	0
Fire	
Cut	
Animal	ML
Other	U

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

**CURRENT LAND USE:**

Current Land Use:

Former Land Use:

Total modules

5

Intensive modules: 4 Plot configuration: 

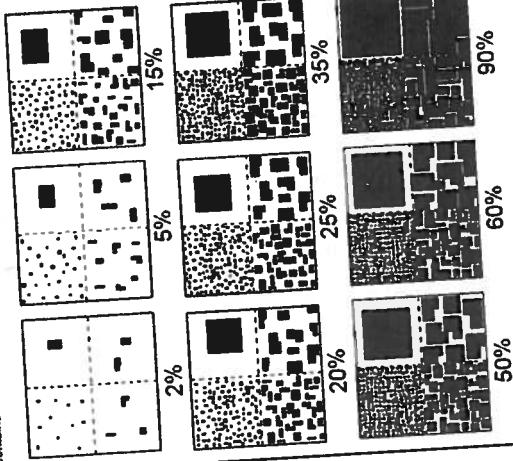
## Cleveland Metroparks

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

11

#### EXAMPLES OF PERCENT OF AREA COVERED

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



#### BROWSE RATING NARRATIVE DESCRIPTION

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

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

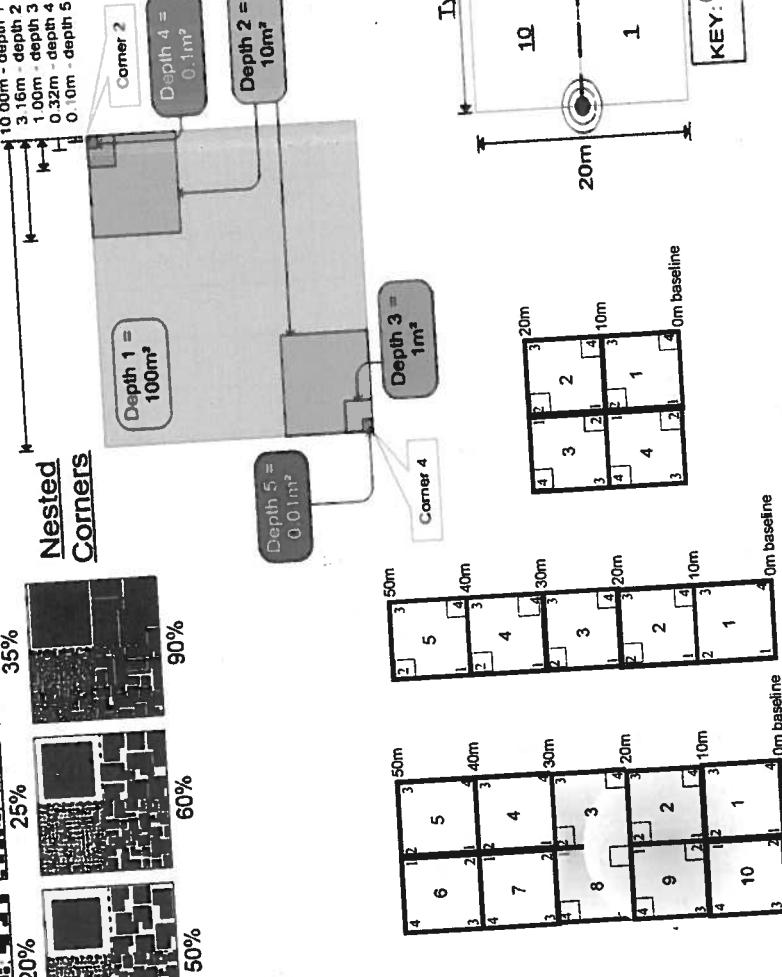
and arrowwood viburnum exhibit browse. **MEDIUM:** browse affects greater than 10 percent and less than 25 percent of stems in the 1 m<sup>2</sup> nested quadrat and intensive module. A browse line is usually not evident or obvious for all classes and species of vegetation, but careful examination may show preferential browse and/or browse lines for some species of plants.

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

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

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

cover class	% cover	midpoint
1	solitary or few	0.0001
2	0-1%	0.005
3	1-2%	0.015
4	2.5%	0.035
5	5-10%	0.075
6	10-25%	0.175
7	25-50%	0.375
8	50-75%	0.625
9	75-95%	0.850
10	95-100%	0.975



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

Project Label: PCAP

Project name: 01BC 2013

Page 2 of 5

Total modules: 5

Intensive modules: 4

Plot configuration: ix5

Plot area (ha): .05



Cleveland  
Metroparks

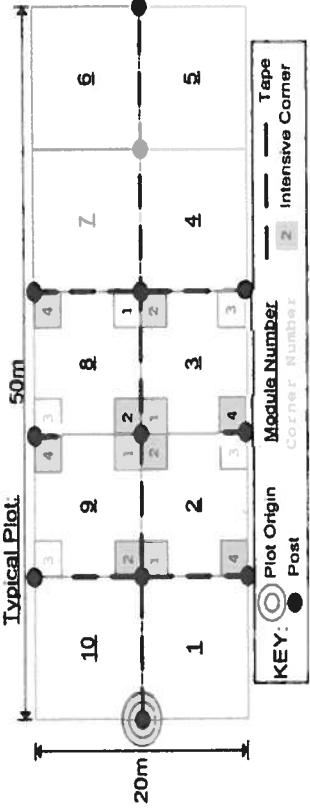
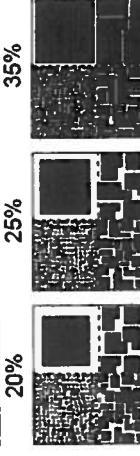
Br = Browse Level. Use cover classes to  
describe amount of browse per species over  
entire plot

		Estimate for each intensive module:																	
		mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner
		depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov
		1	4	1	2	2	4	2	3	4	3	2	4	4	4	2	R	R	
		1		1		1		1		1		1		1		1			
		2		2		2		2		2		2		2		2			
		3		3		3		3		3		3		3		3			
		4		4		4		4		4		4		4		4			

Strata - Cov. entire plot		Species												Estimate for each intensive module:											
T	S	H	(F)	(A)	Br	c	Voucher #											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
1	2	2	2	2	2	Ulmus sp. (seedling)	3	1	2	1	1	1	1	3	2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	Sanicula sp. (nepeta)	3	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
3	4	4	4	4	4	Eupatorium rugosum	2	3	3	2	2	3	3	2	4	4	4	4	4	4	4	4	4	4	4
2	2	2	2	2	2	Berberis thunbergii	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1	1	1	1	1	1	Quercus sp. (seedling)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	Carex sp. #2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	Rosa multiflora	SKE 11-14-13	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
1	1	1	1	1	1	Carex sp. #3	CSK-255	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1	1	1	1	1	1	Rhamnus frangula	botanical	2	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	Ulmus dicoq	4	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	Euonymus	CSK-26289	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	Polygonum virginianum	SKE 11-30-13	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
1	1	1	1	1	1	Urtica dioica	AST 11-25-13	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
1	1	1	1	1	1	Urtica dioica	CSK-26301	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
1	1	1	1	1	1	Lonicera mackii	10-30-13	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	
1	1	1	1	1	1	Rubus sp. (seedling)		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
2	2	2	2	2	2	Asteracea sp. (unk dicot)		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	Ulmus dicoq #3		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	Carex sp. #4	Ulmus	X	SK-254	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	
2	2	2	2	2	2	Pinus strobus	SKE 11-30-13	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
2	2	2	2	2	2	Coronilla varia		1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
1	1	1	1	1	1	Sassafras albidum		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	Carex sp. #5	X	SK-256	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1
2	2	2	2	2	2	Agrimonina sp.	X	SK-257	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	Prunella vulgaris		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	Solidago caerulea		1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
1	1	1	1	1	1	Sanicula oregana	X	SK-258	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

## EXAMPLES OF PERCENT OF AREA COVERED

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



BROWSE BATTING NARRATIVE DESCRIPTION

**LOW OR NONE:** there is no measurable browse line  
**AND** there are very few or no plants 1-m nested quadrat  
and intensive module. In general, low values relate to

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

normal in comparison to low browse areas. For example, trilliums may flower and fruit, but jewelweed and arrowwood viburnum exhibit browse.

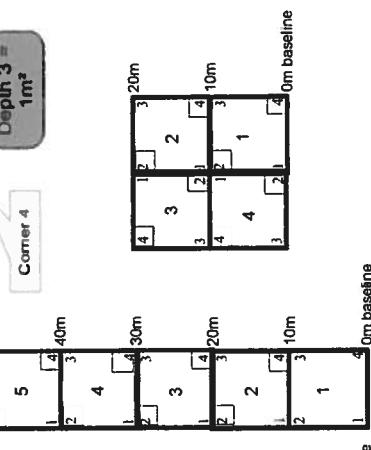
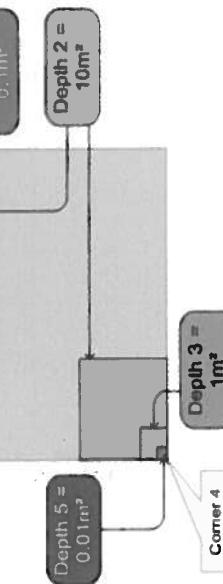
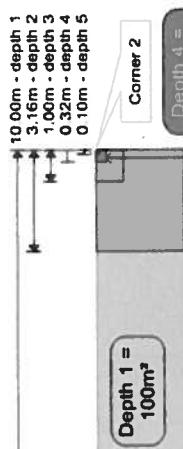
**MEDIUM:** browse affects greater than 10 percent and less than 25 percent of stems in the 1 m<sup>2</sup> nested quadrat and intensive module. A browse line is usually not evident or obvious for all classes and species of vegetation, but careful examination may show preferential browse and/or browse lines for some species of plants.

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

or it is very severely limited. **HIGH**- greater than 25 percent of the stems of plants in the 1 m<sup>2</sup> nested quadrat and intensive module AND a browse line is evident. **VERY HIGH** values include extensive browse conditions.

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

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



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

Project Label: **PCAP**

Project name: 01Be 3

Plot no.: 1382

Page 3 of 5

Total modules: 5 Intensive modules: 4 Plot configuration: 1x5

Plot area (ha): 0.05

A small, dark, circular logo with a stylized 'L' shape and a central dot, representing the 'levelup' brand.

Cleveland  
Metroparks

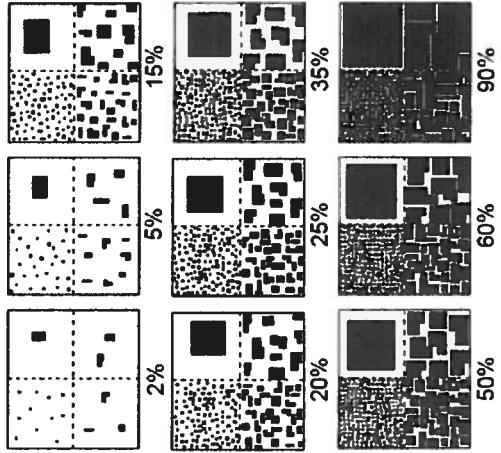
describe amount of browse per species over entire plot

same 2!

### Strata - Cov. entire plot

## EXAMPLES OF PERCENT OF AREA COVERED

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



BROWSE BATING NARRATIVE DESCRIPTION

**BROWSE RAILING 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

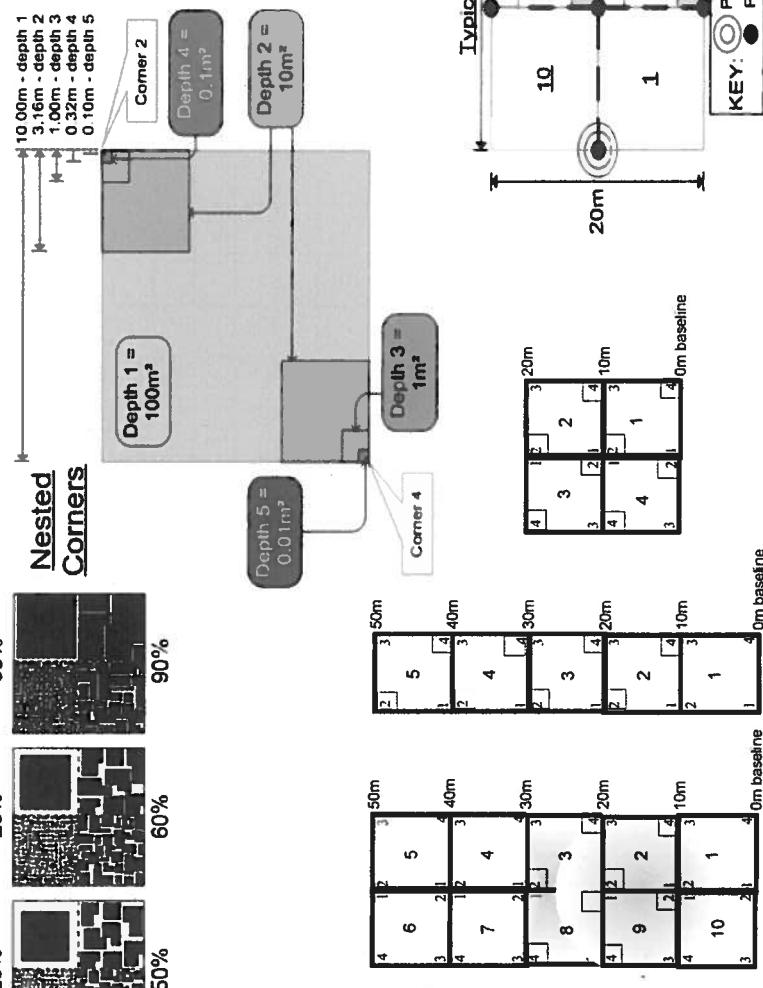
**MEDIUM HIGH** values include evidence of a browse line of plants.

Percent of stems browsed or browsed once and 25 percent of stems browsed with very little vegetation regeneration evident. In this rating, for some species of plants, reproduction does not appear to occur or it is very severely limited.

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

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

cover class	% cover	midpoint
1	solitary or few	0.0001
2	0-1%	0.005
3	1-2%	0.015
4	2.5%	0.035
5	5-10%	0.075
6	10-25%	0.175
7	25-50%	0.375
8	50-75%	0.625
9	75-95%	0.850
10	95-100%	0.975



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

Project Label:

PCAP

Project name: 013e3013

Plot no.: 1382

Page 4 of 5

Total modules:

Intensive modules: H S

Plot configuration: 1x5

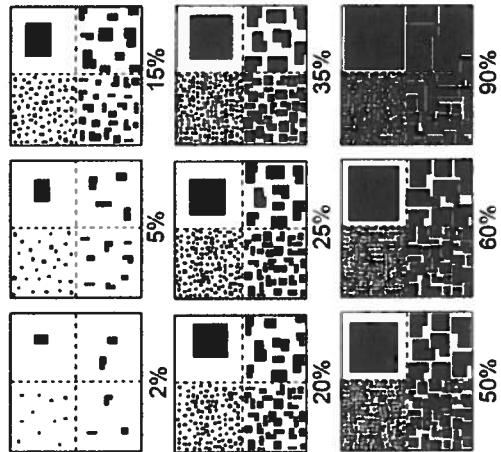
Plot area (ha): 0.05

Cleveland Metroparks										Br = Browse Level. Use cover classes to describe amount of browse per species over entire plot										
Strata - Cov. entire plot										Estimate for each intensive module:										
T	S	H	(F)	(A)	Br	Species	C	Voucher #	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner
1	4	1	2	2	4	<i>Lonicera morrowii</i>	1	CS-2639	2	2	3	4	1	3	2	4	4	4	2	R
1	1	1	1	1	1	UNK mon. #4 (nd repro.)	1	CS-2639	1	1	1	1	1	1	1	1	1	1	1	R
2	8	1	2	2	8	Impatiens sp.	1	CS-2639	1	1	1	1	1	1	1	1	1	1	1	1
2	1	2	2	2	1	Asteraceas sp. #3	1	CS-2639	1	1	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	UNK mon. #5	1	CS-2639	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	Moss sp.	1	CS-2638	1	2	4	2	4	2	4	4	4	2	2	2
1	1	1	1	1	1	UNK dicot #6	1	CS-2638	1	2	4	2	4	2	4	4	4	2	2	2
2	1	2	2	2	1	Rumex sp. (10 repro.)	1	CS-2638	1	2	4	2	4	2	4	4	4	2	2	2
2	2	2	2	2	2	Rhus sp.	1	CS-2639	1	2	4	2	4	2	4	4	4	2	2	2
2	2	2	2	2	2	Aster cordifolius sp.	1	CS-2639	1	2	4	2	4	2	4	4	4	2	2	2
2	2	2	2	2	2	Catacena sp. #2.	1	CS-2639	1	2	4	2	4	2	4	4	4	2	2	2
2	3	2	2	2	3	Carex sp. #7 (sparsely)	1	CS-2639	1	2	4	2	4	2	4	4	4	2	2	2
2	2	2	2	2	2	Luzumachia nummularia	1	CS-2639	1	2	4	2	4	2	4	4	4	2	2	2
2	2	2	2	2	2	Aster sp. #3	1	CS-2639	1	2	4	2	4	2	4	4	4	2	2	2
2	2	2	2	2	2	Tilia americana	1	CS-2639	1	2	4	2	4	2	4	4	4	2	2	2
1	1	1	1	1	1	Hackelia virginiana	1	CS-2639	1	2	4	2	4	2	4	4	4	2	2	2
1	1	1	1	1	1	Thlaspi sp. #7 (sparsely)	1	CS-2639	1	2	4	2	4	2	4	4	4	2	2	2
1	1	1	1	1	1	UNK dicot #8 (penitillaria)	1	CS-2639	1	2	4	2	4	2	4	4	4	2	2	2
1	1	1	1	1	1	Grindelia sp.	1	CS-2639	1	2	4	2	4	2	4	4	4	2	2	2
2	2	2	2	2	2	Panicum sp. (no report)	1	CS-2639	1	2	4	2	4	2	4	4	4	2	2	2
1	1	1	1	1	1	Daucus carota	1	CS-2639	1	2	4	2	4	2	4	4	4	2	2	2
1	1	1	1	1	1	Betula sp. (seedling)	1	CS-2639	1	2	4	2	4	2	4	4	4	2	2	2
2	2	2	2	2	2	Veronica officinalis	1	CS-2639	1	2	4	2	4	2	4	4	4	2	2	2
2	2	2	2	2	2	Tussilago farfara	1	CS-2639	1	2	4	2	4	2	4	4	4	2	2	2

16 32 15  
15 16 15  
15 16 15  
15 16 15

## EXAMPLES OF PERCENT OF AREA COVERED

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



BROWSE BATTING NARRATIVE DESCRIPTION

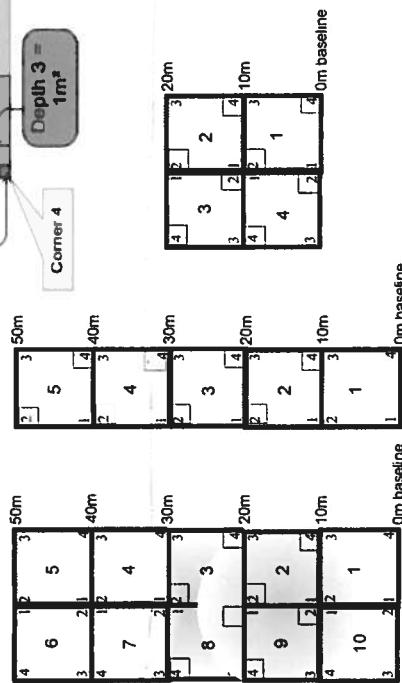
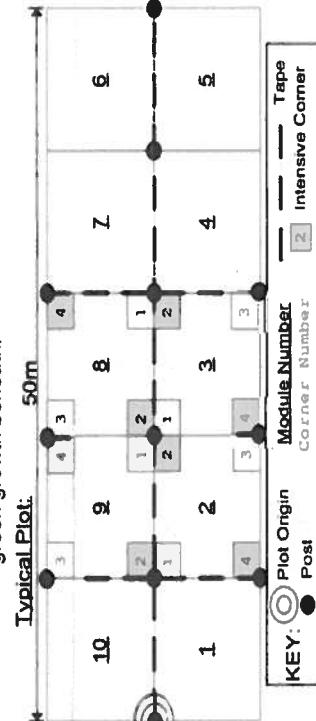
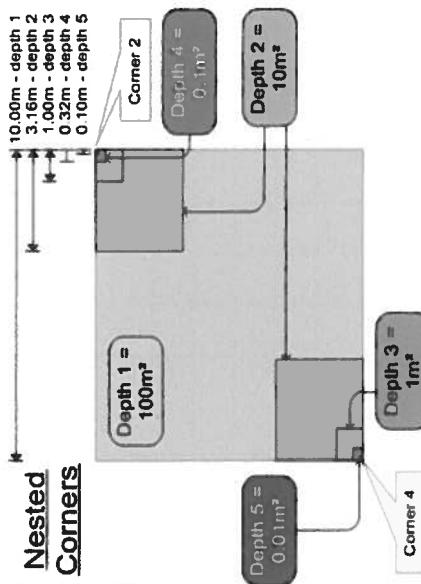
**LOW OR NONE:** there is no measurable browse line AND there are very few or no plants 1-m nested quadrat and intensive module. In general low values relate to

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

reproducing in numbers that appear nominal or near-normal in comparison to low-browse areas. For example, trilliums may flower and fruit, but jewelweed and arrowwood viburnum exhibit browse.

**MEDIUM:** browse affects greater than 10 percent and less than 25 percent of stems in the 1 m<sup>2</sup> nested quadrat and intensive module. A browse line is usually not evident or obvious for all classes and species of vegetation, but careful examination may show preferential browse and/or browse lines for some species

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



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

Project Label: PCAP

Project name: Be 2013

Plot no.: 1383

Page 5 of 10

Total modules: 5 Intensive modules: 4 Plot configuration: 1x5

Plot area (ha): 0.5



Cleveland  
Metroparks

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

111

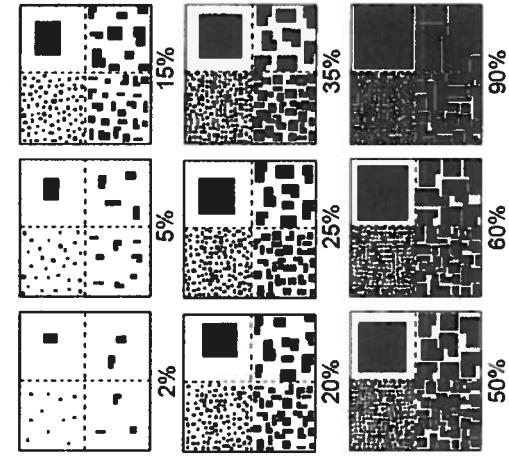
-Beweg%

ground (bare soil) 1 1 1 1 1 1 1 1

Combined  
Set  
11-14-13

#### EXAMPLES OF PERCENT OF AREA COVERED

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



#### BROWSE RATING NARRATIVE DESCRIPTION

**LOW OR NONE:** there is no measurable browse line

AND there are very few or no plants 1-m nested quadrat and intensive module. In general, low values relate to less than 10 percent, by numbers of stems browsed.

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

**MEDIUM:** browse affects greater than 10 percent and less than 25 percent of stems in the 1 m<sup>2</sup> nested quadrat and intensive module. A browse line is usually not evident or obvious for all classes and species of vegetation, but careful examination may show

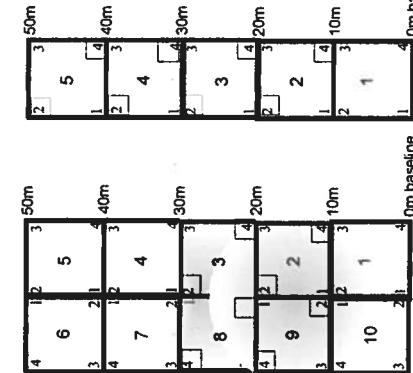
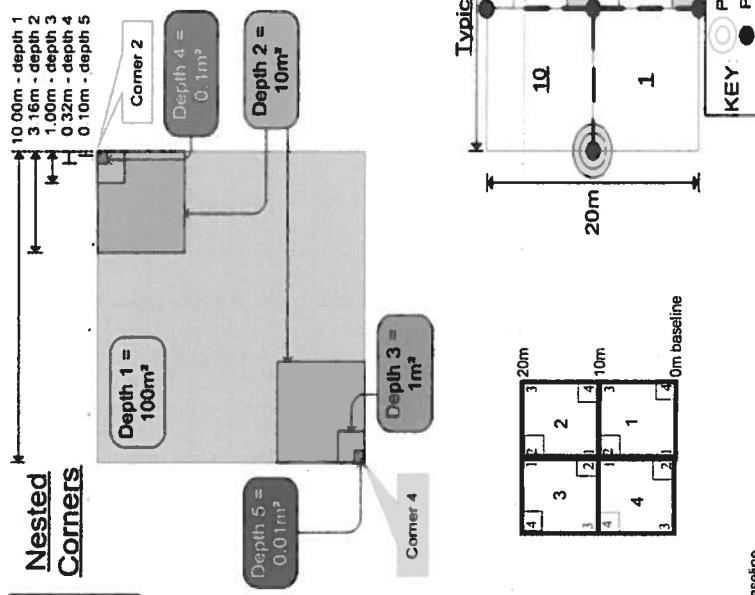
preferential browse and/or browse lines for some species of plants.

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

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

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

cover class	% cover	midpoint
1	solitary or few	0.0001
2	0-1%	0.005
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: DLB-2013

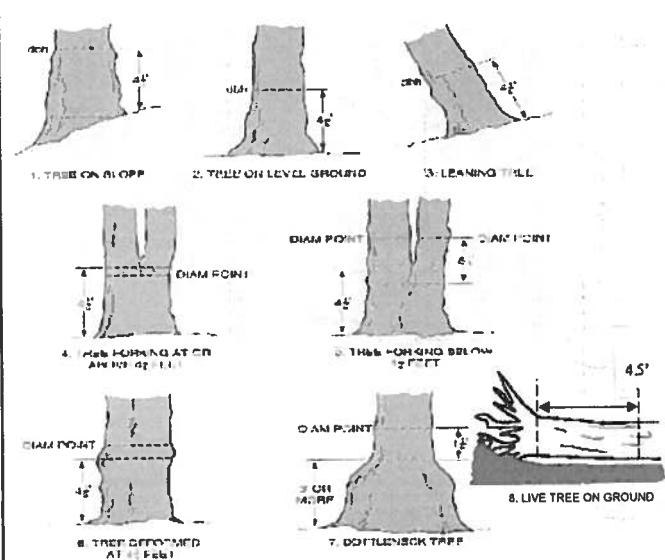
Page: 1 of

Cleveland Metroparks

Explain subsample (additional room on back):

Plot #	species	c	voucher#	# stems 0-1.4m browsed	% sub 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		
1	<i>Ulmus americana</i>																	
1	<i>Acer saccharinum</i>																	
1	<i>Platanus occidentalis</i>																	
1	Standing dead																	
1	Liriodendron tulipifera																	
1	<i>Rosa multiflora</i>																	
1	<i>Betula thunbergii</i>																	
1	<i>Vitis</i> sp. <sup>100%</sup> SRE 18-41-3																	
1	<i>Fraxinus pennsylvanica</i>																	
1	<i>Liquidambar</i> benzoin																	
2	<i>Acer saccharinum</i>																	
2	Standing dead																	
2	<i>Lindera benzoin</i>																	
2	<i>Fraxinus pennsylvanica</i>																	
2	<i>Ligustrum vulgare</i>																	
2	<i>Lonicera morrowii</i>																	
2	<i>Vitis</i> sp. <sup>100%</sup> SRE 12-41-3																	
3	<i>Ligustrum vulgare</i>																	
3	<i>Ulmus americana</i>																	
3	<i>Acer saccharum</i>																	
3	Standing dead																	
3	<i>Larix laricina</i>																	
3	Others																	

#### 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 Be 2013

Plot No. 383

Page: 2

Digitized by srujanika@gmail.com

## Explain subsample (additional room on back)

11 of 11

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.

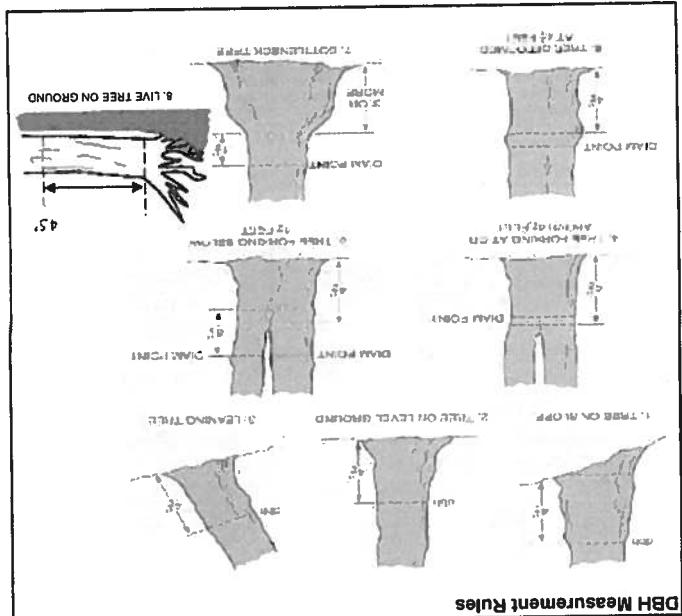


- 5. Dead canopy: No leaves remain in the canopy portion of the tree. It still counts as a live even if there are epicormic sprouts below the canopy (lowest branch) on the trunk.
- 4. >50% Dieback: The canopy has less than half of the leaves that should be there and/or half of the top branches are dead.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

#### ASH CANOPY CONDITION



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



CLEVELAND METROPARKS Emerald Ash Borer - *Fraxinus* Sheet

Project Label: PCAP

Project Name: OIBX 2013

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

Page: 1 of 2

Plot No.: 1383 Date: 8/21/13

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

Baseline

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

9	2	3
---	---	---

N

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

- \* If Ash Condition scores 5 (dead) provide breakup score (A-E)
- Count EAB exit holes  $1.25\text{cm}^2 \times \geq 1.5\text{m}$
- Woodpecker and epicormic marked present (1) or absent (0)

CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey



Tier 1: Early detection/ Rapid response		Presence				GPS	Presence
		NE	SE	SW	NW		X: yes
<i>Microstegium vimineum</i>	Japanese Stiltgrass						
<i>Ranunculus ficaria</i>	Lesser Celandine						
<i>Cynanchum louiseae</i> (vine)	Black Swallow-wort						
<i>Butomus umbellatus</i> (wetland)	Flowering Rush						
<i>Heracleum mantegazzianum</i>	Giant Hogweed						
Tier 2: Assess as Needed		# of Plants		comments			
		NE	SE	SW	NW		# of Plants
<i>Acer platanoides</i>	Norway Maple						1: 1-10
<i>Ailanthus altissima</i>	Tree of Heaven						2: 11-50.
<i>Lonicera japonica</i> (vine)	Japanese Honeysuckle						3: 51-100
<i>Lythrum salicaria</i> (wetland)	Purple Loosestrife						4: 101-1,000
<i>Aegopodium podagraria</i> (G-cover)	Bishop's Goutweed						5: >1,000
<i>Celastrus orbiculatus</i> (vine)	Asian Bittersweet			1		SRF 12-4-13	
<i>Torilis</i> sp.	Hedgeparsley						
<i>Conium maculatum</i>	Poison Hemlock						
<i>Rhamnus cathartica</i>	Common Buckthorn (shrub)						
<i>Berberis thunbergii</i>	Japanese Barberry (shrub)			X	X		
<i>Alnus glutinosa</i>	European Alder						
<i>Dipsacus laciniatus</i>	Cut-leaf Teasel						
<i>Elaeagnus umbellata</i>	Autumn Olive (shrub)						
<i>Lonicera maackii</i>	Amur Honeysuckle (shrub)			X	X		
<i>Euonymus fortunei</i>	Wintercreeper			1		1 small patch	
Tier 3: Presence is of Interest		# of Plants		comments			
		NE	SE	SW	NW		# of Plants
<i>Convallaria majalis</i> (G-cover)	Lily of the Valley						1: 1-10
<i>Coronilla varia</i> (G-cover)	Crown Vetch	1	2			2 Large	2: 11-50.
<i>Eleutherococcus pentaphyllus</i>	Five-leaf Aralia (shrub)						3: 51-100
<i>Pachysandra terminalis</i> (G-cover)	Japanese Pachysandra						4: 101-1,000
<i>Philadelphus coronarius</i>	Mock Orange (shrub)						5: >1,000
<i>Pulmonaria officinalis</i> (G-cover)	Lungwort						
<i>Rubus phoenicolasius</i>	Wineberry						
<i>Iris pseudacorus</i> (wetland)	Yellow Flag Iris						
<i>Ornithogalum umbellatum</i>	Star of Bethlehem						
<i>Viburnum opulus</i> var. <i>opulus</i>	European Cranberry (shrub)						
<i>Viburnum plicatum</i>	Doublefile Viburnum (shrub)						
Tier 4: Widespread and abundant		Presence				comments	# of Plants
		NE	SE	SW	NW		1: 1-10
<i>Alliaria petiolata</i>	Garlic Mustard	1	1	1	2		2: 11-50.
<i>Ligustrum vulgare</i>	Common Privet (shrub)	2	2	2	2		3: 51-100
<i>L. morrowii</i> , <i>L. tatarica</i>	Bush Honeysuckles (shrub)		1	1	1		4: 101-1,000
<i>Phalaris arundinacea</i>	Reed Canarygrass						5: >1,000
<i>Phragmites australis</i> (wetland)	Phragmites						
<i>Polygonum cuspidatum</i>	Japanese Knotweed						
<i>Frangula alnus</i>	Glossy Buckthorn (shrub)	1	1				
<i>Rosa multiflora</i>	Multiflora Rose (shrub)	1	1				
<i>Typha angustifolia</i> , <i>T. x. glauca</i>	Cattails (wetland)						
<i>Cirsium arvense</i>	Canada thistle						
<i>Dipsacus fullonum</i>	Common Teasel						
<i>Hesperis matronalis</i>	Dame's Rocket	1	1	1	1		
<i>Vinca minor</i> (G-cover)	Periwinkle						

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



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.

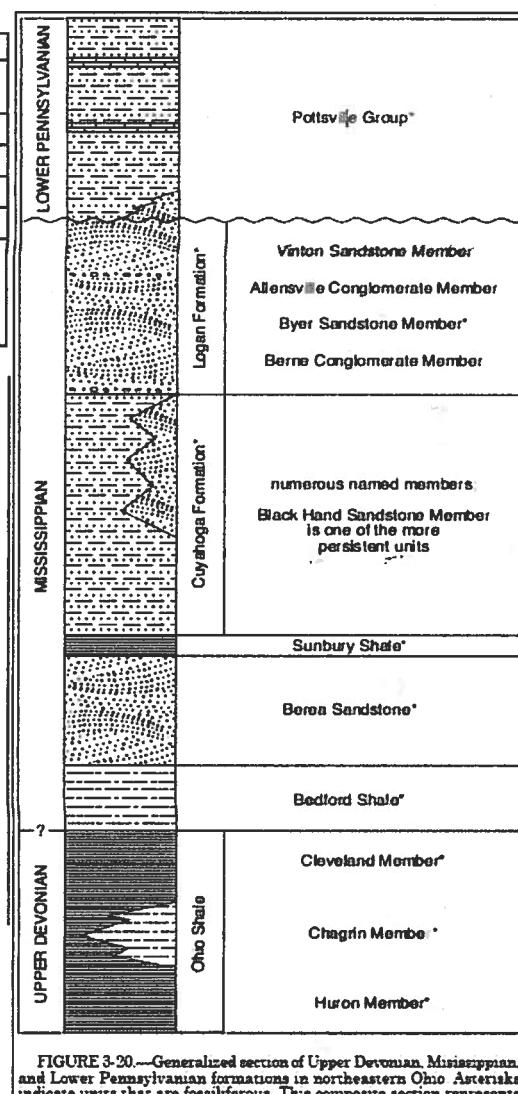
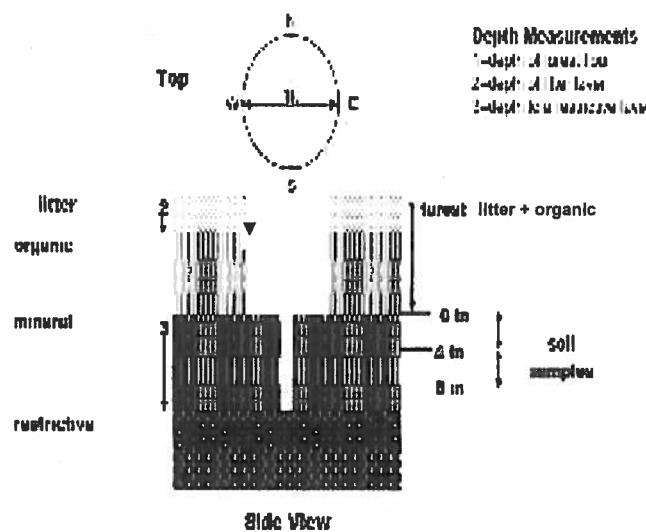


FIGURE 3-20.—Generalized section of Upper Devonian, Mississippian, and Lower Pennsylvanian formations in northeastern Ohio. Asterisks indicate units that are fossiliferous. This composite section represents about 400 meters of rock exposed across the area. The section is not to scale, but the thicknesses 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.

**SOIL PIT DESCRIPTION:** Excavate 20 cm

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

West Coast, Native, and Old.

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

5 cm	matrix color	2.5g 3/3
matrix color	—	
matrix color	—	
% monticle	○	
oxid/reduc	Y	
texture*	1	
redox features**	Y	
hydr cond ***	I S M D	N
matrix color	2.5g 3/2	
matrix color	—	

Soil Series Source:	Ohio Soil Survey
Landform type:	Flood Plains
Depth to rest. Layer:	>80"
Soil Series Type:	Tg / Tioga loam

101cm

**DRAINAGE\***

Excessively dr.       Somewhat excessively dr.

Well drained       Moderately well dr.

Somewhat poorly dr.       Very poorly dr.

Impermeable surface

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

mod#	1 litter+ organic depth (cm)	2 litter depth (cm)	water depth (cm)	depth sat soil (cm)
1	2.0	2.0	0	730
2	2.1	2.1	0	730
3	0.2	0.2	0	730
4	0.1	0.2	0	730

COVER BY STRATA		
estimate using midpoints of 5, ex: 3, 8, 13 %		
Strata	Height Range (m)	Total Cover (%)
Tree	5 -	33
Shrub	.5 - .5	23
Herb	0 - .5	38
(Floating)*	—	n/a
(Aquatic)*	—	n/a

\*rooted and floating or slightly emersed

\*\* submersed, most plant mass below surface

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

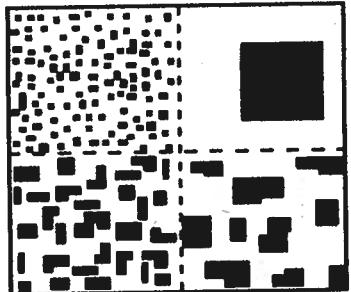
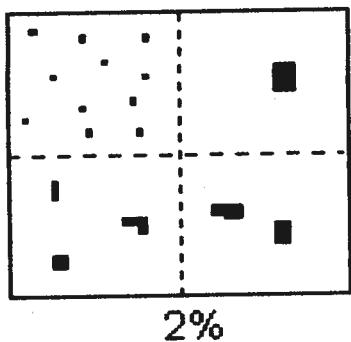
EARTH SURFACE & GROUND COVER		
Underlying Earth Surface <sup>a</sup>	Ground Cover	
Sum = 100%	percent	(Each $\leq 100\%$ )
Histsol	0	Course Woody Debris***
Mineral Soil	95	Fine Woody Debris***
Gravel-Cobble*	5	Litter
Boulder**	0	Duff (Fern + Humus)
Bedrock	0	Bryophyte-Lichen
* Gravel-Cobble = 1/10-10"	Water	1
**Boulder = > 10 in	Bare Soil	0
*** > 5 cm in diameter	Road/Trail	4
**** < 5 cm in diameter	Other	na

- STAND SIZE**
- $> 600 \times \text{plot size}$
- $> 100 \times \text{plot size}$
- $10-100 \times \text{plot size}$
- $3-10 \times \text{plot size}$
- $< 3 \times \text{plot size}$

Several large worms seen at surface

### PERCENT MOTTLES (USE CLASS CODES):

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



2%

20%

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

0= Organic

1= Loamy

2= Clayey

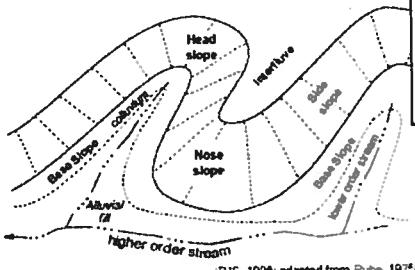
3= Sandy

4= Coarse Sand

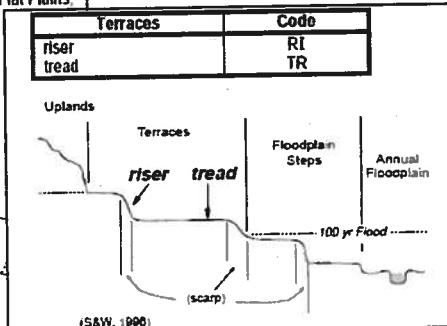
9= Not measured - make plot note

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

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

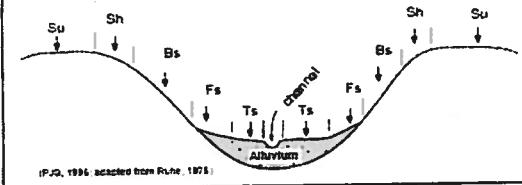


(PJS, 1996; adapted from Rouse, 1975.)



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

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



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

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

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

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

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

**TEMPORARILY FLOODED:** Surface water present for brief periods during growing season, but water table usually lies well below soil surface. Often characterizes flood-plain levees and lower terraces. Equivalent to Cowardin's Temporary modifier.

**INTERMITTENTLY FLOODED :** Substrate is usually exposed, but surface water can be present for variable periods without detectable seasonal periodicity. Inundation is not predictable to a given season and is dependent upon highly localized rain storms. This modifier was developed for use in the arid West for water regimes of Playa lakes, intermittent streams, and dry washes but can be used in other parts of the U.S. where appropriate. This modifier can be applied to both wetland and non-wetland situations. Equivalent to Cowardin's Intermittently Flooded modifier.

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

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

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

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

Reviewed by (Initial): \_\_\_\_\_

Site ID: PCAP Be 1383

DATE: 08/21/2013

Location: AA Center

ON OS OE OW

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

 Plot 1  Plot 2  Plot 3

## Buffer Natural Cover Strata

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

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

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

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

Residential and Urban Stressors				Hydrology Stressors				Agricultural & Rural Stressors							
Fill bubble if present - Plot	1	2	3	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 checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		Impervious surface Input (SHEETFLOW)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Gravel Pit	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Irrigation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		

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

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

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

2428168304

FORM B-1: BUFFER SAMPLE PLOTS - TARGETED ALIEN SPECIES (Back)																																																																																																																																																														
<p>Site ID: <u>PCAP B6 1383</u>      DATE: <u>08/21/2013</u></p> <p>☐ Confirm a filled data bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble</p> <p>☐ Bubble if present - Plot 1    2    3    Flag    Fill bubble if present - Plot 1    2    3    Flag</p> <p>☐ Fill bubble if present - Plot 1    2    3    Flag    Fill bubble if present - Plot 1    2    3    Flag</p> <p>☐ Provide GPS coordinates at the center of the Buffer Plot (#3) at the far end of each Buffer Transect and for the Buffer Plot at the AA CENTER. 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.</p> <p>Flag      Location of coordinates (choose one):</p> <p>AA CENTER    O N3    O S3    O E3    O W3    O Nearest practicable location (flag and comment below)</p> <p>Latitude North <u>41.37778</u>      Longitude West <u>081.57463</u>      Use Decimal Degrees; NAD83</p> <p>Flag      Comments</p>																																																																																																																																																														
<table border="1"> <thead> <tr> <th colspan="3">PLOT COORDINATES</th> </tr> </thead> <tbody> <tr> <td>Water Hyacinth</td> <td>○ ○ ○</td> <td>Knotweed</td> <td>○ ○ ○</td> <td>Johnsongrass</td> <td>○ ○ ○</td> <td>Kudzu</td> <td>○ ○ ○</td> <td>Multiflora Rose</td> <td>○ ○ ○</td> <td>Common Buckthorn</td> <td>○ ○ ○</td> </tr> <tr> <td>Garlic Mustard</td> <td>○ ○ ○</td> <td>Giant Reed</td> <td>○ ○ ○</td> <td>Himalayan Blackberry</td> <td>○ ○ ○</td> <td>Chenopodium</td> <td>○ ○ ○</td> <td>Tamarišk</td> <td>○ ○ ○</td> <td>Reed Canary Grass</td> <td>○ ○ ○</td> </tr> <tr> <td>Mile-A-Minute Weed</td> <td>○ ○ ○</td> <td>Reed Canary Grass</td> <td>○ ○ ○</td> <td>Other</td> <td>○ ○ ○</td> <td>Common Reed</td> <td>○ ○ ○</td> <td>Other</td> <td>○ ○ ○</td> <td>Birdsfoot Trefoil</td> <td>○ ○ ○</td> </tr> <tr> <td>Poison Hemlock</td> <td>○ ○ ○</td> <td>Chenopodium</td> <td>○ ○ ○</td> <td>Other</td> <td>○ ○ ○</td> <td>Leafy Spurge</td> <td>○ ○ ○</td> <td>Other</td> <td>○ ○ ○</td> <td>Canada Thistle</td> <td>○ ○ ○</td> </tr> <tr> <td>Yellow Flowering Heart</td> <td>○ ○ ○</td> <td>Japanese Knotweed</td> <td>○ ○ ○</td> <td>Other</td> <td>○ ○ ○</td> <td></td> <td>○ ○ ○</td> <td></td> <td>○ ○ ○</td> <td></td> <td></td> </tr> <tr> <td>Giant Salvina</td> <td>○ ○ ○</td> <td>Perennial Pepperweed</td> <td>○ ○ ○</td> <td>Other</td> <td>○ ○ ○</td> <td></td> <td>○ ○ ○</td> <td></td> <td>○ ○ ○</td> <td></td> <td></td> </tr> <tr> <td>Garlic Mustard</td> <td>○ ○ ○</td> <td>Giant Reed</td> <td>○ ○ ○</td> <td>Other</td> <td>○ ○ ○</td> <td></td> <td>○ ○ ○</td> <td></td> <td>○ ○ ○</td> <td></td> <td></td> </tr> <tr> <td>Poison Hemlock</td> <td>○ ○ ○</td> <td>Chenopodium</td> <td>○ ○ ○</td> <td>Other</td> <td>○ ○ ○</td> <td></td> <td>○ ○ ○</td> <td></td> <td>○ ○ ○</td> <td></td> <td></td> </tr> <tr> <td>Mile-A-Minute Weed</td> <td>○ ○ ○</td> <td>Reed Canary Grass</td> <td>○ ○ ○</td> <td>Other</td> <td>○ ○ ○</td> <td></td> <td>○ ○ ○</td> <td></td> <td>○ ○ ○</td> <td></td> <td></td> </tr> <tr> <td>Birdsfoot Trefoil</td> <td>○ ○ ○</td> <td>Reed Canary Grass</td> <td>○ ○ ○</td> <td>Other</td> <td>○ ○ ○</td> <td></td> <td>○ ○ ○</td> <td></td> <td>○ ○ ○</td> <td></td> <td></td> </tr> <tr> <td>Canada Thistle</td> <td>○ ○ ○</td> <td>Common Reed</td> <td>○ ○ ○</td> <td>Other</td> <td>○ ○ ○</td> <td></td> <td>○ ○ ○</td> <td></td> <td>○ ○ ○</td> <td></td> <td></td> </tr> <tr> <td>Flag</td> </tr> </tbody> </table>												PLOT COORDINATES			Water Hyacinth	○ ○ ○	Knotweed	○ ○ ○	Johnsongrass	○ ○ ○	Kudzu	○ ○ ○	Multiflora Rose	○ ○ ○	Common Buckthorn	○ ○ ○	Garlic Mustard	○ ○ ○	Giant Reed	○ ○ ○	Himalayan Blackberry	○ ○ ○	Chenopodium	○ ○ ○	Tamarišk	○ ○ ○	Reed Canary Grass	○ ○ ○	Mile-A-Minute Weed	○ ○ ○	Reed Canary Grass	○ ○ ○	Other	○ ○ ○	Common Reed	○ ○ ○	Other	○ ○ ○	Birdsfoot Trefoil	○ ○ ○	Poison Hemlock	○ ○ ○	Chenopodium	○ ○ ○	Other	○ ○ ○	Leafy Spurge	○ ○ ○	Other	○ ○ ○	Canada Thistle	○ ○ ○	Yellow Flowering Heart	○ ○ ○	Japanese Knotweed	○ ○ ○	Other	○ ○ ○		○ ○ ○		○ ○ ○			Giant Salvina	○ ○ ○	Perennial Pepperweed	○ ○ ○	Other	○ ○ ○		○ ○ ○		○ ○ ○			Garlic Mustard	○ ○ ○	Giant Reed	○ ○ ○	Other	○ ○ ○		○ ○ ○		○ ○ ○			Poison Hemlock	○ ○ ○	Chenopodium	○ ○ ○	Other	○ ○ ○		○ ○ ○		○ ○ ○			Mile-A-Minute Weed	○ ○ ○	Reed Canary Grass	○ ○ ○	Other	○ ○ ○		○ ○ ○		○ ○ ○			Birdsfoot Trefoil	○ ○ ○	Reed Canary Grass	○ ○ ○	Other	○ ○ ○		○ ○ ○		○ ○ ○			Canada Thistle	○ ○ ○	Common Reed	○ ○ ○	Other	○ ○ ○		○ ○ ○		○ ○ ○			Flag											
PLOT COORDINATES																																																																																																																																																														
Water Hyacinth	○ ○ ○	Knotweed	○ ○ ○	Johnsongrass	○ ○ ○	Kudzu	○ ○ ○	Multiflora Rose	○ ○ ○	Common Buckthorn	○ ○ ○																																																																																																																																																			
Garlic Mustard	○ ○ ○	Giant Reed	○ ○ ○	Himalayan Blackberry	○ ○ ○	Chenopodium	○ ○ ○	Tamarišk	○ ○ ○	Reed Canary Grass	○ ○ ○																																																																																																																																																			
Mile-A-Minute Weed	○ ○ ○	Reed Canary Grass	○ ○ ○	Other	○ ○ ○	Common Reed	○ ○ ○	Other	○ ○ ○	Birdsfoot Trefoil	○ ○ ○																																																																																																																																																			
Poison Hemlock	○ ○ ○	Chenopodium	○ ○ ○	Other	○ ○ ○	Leafy Spurge	○ ○ ○	Other	○ ○ ○	Canada Thistle	○ ○ ○																																																																																																																																																			
Yellow Flowering Heart	○ ○ ○	Japanese Knotweed	○ ○ ○	Other	○ ○ ○		○ ○ ○		○ ○ ○																																																																																																																																																					
Giant Salvina	○ ○ ○	Perennial Pepperweed	○ ○ ○	Other	○ ○ ○		○ ○ ○		○ ○ ○																																																																																																																																																					
Garlic Mustard	○ ○ ○	Giant Reed	○ ○ ○	Other	○ ○ ○		○ ○ ○		○ ○ ○																																																																																																																																																					
Poison Hemlock	○ ○ ○	Chenopodium	○ ○ ○	Other	○ ○ ○		○ ○ ○		○ ○ ○																																																																																																																																																					
Mile-A-Minute Weed	○ ○ ○	Reed Canary Grass	○ ○ ○	Other	○ ○ ○		○ ○ ○		○ ○ ○																																																																																																																																																					
Birdsfoot Trefoil	○ ○ ○	Reed Canary Grass	○ ○ ○	Other	○ ○ ○		○ ○ ○		○ ○ ○																																																																																																																																																					
Canada Thistle	○ ○ ○	Common Reed	○ ○ ○	Other	○ ○ ○		○ ○ ○		○ ○ ○																																																																																																																																																					
Flag	Flag	Flag	Flag	Flag	Flag	Flag	Flag	Flag	Flag	Flag	Flag																																																																																																																																																			
<p>Flag      Location of coordinates (choose one):</p> <p>AA CENTER    O N3    O S3    O E3    O W3    O Nearest practicable location (flag and comment below)</p> <p>Latitude North <u>41.37778</u>      Longitude West <u>081.57463</u>      Use Decimal Degrees; NAD83</p> <p>Flag      Comments</p>																																																																																																																																																														

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

Reviewed by (Initial): \_\_\_\_\_

Site ID: PCAP Be1383

DATE: 08/21/2013

Location:

O AA Center    ● 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    ● 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(&lt;10%); 2=Moderate(10-40%); 3 = Heavy (40-75%); 4 = Very Heavy (&gt;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		Leaf Type: B N	Flag	Leaf Type: B N		Leaf Type: B N	Flag	
Big Trees (>0.3m DBH)	0 1 2 3 4		Big Trees (>0.3m DBH)	0 1 2 3 4		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		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-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		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		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		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		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		Rock	0 1 2 3 4	
Water	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		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. O

Residential and Urban Stressors				Hydrology Stressors				Agricultural & Rural Stressors							
Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	
Road - gravel	0 0 0				Ditches, Channelization	0 0 0				Pasture/Hay	0 0 0				
Road - two lane	0 0 0				Dike/Dam/Road/RR Bed (IMPEDE FLOW)	0 0 0				Range	0 0 0				
Road - four lane	0 0 0				Water Level Control Structure	0 0 0				Row Crops	0 0 0				
Parking Lot/Pavement	0 0 0				Excavation, Dredging	0 0 0				Fallow Field (RECENT-RESTING ROW CROP FIELD)	0 0 0				
Golf Course	0 0 0				Fill/Spill Banks	0 0 0				Fallow Field (OLD - GRASS, SHRUBS, TREES)	0 0 0				
Lawn/Park	0 0 0				Freshly Deposited Sediment (UNVEGETATED)	0 0 0				Nursery	0 0 0				
Suburban Residential	0 0 0				Soil Loss/Root Exposure	0 0 0				Dairy	0 0 0				
Urban/Multifamily	0 0 0				Wall/Riprap	0 0 0				Orchard	0 0 0				
Landfill	0 0 0				Inlets, Outlets	0 0 0				Confined Animal Feeding	0 0 0				
Dumping	0 0 0				Point Source/Pipe (EFFLUENT OR STORMWATER)	0 0 0				Rural Residential	0 0 0				
Trash	0 0 0				Impervious surface input (SHEETFLOW)	0 0 0				Gravel Pit	0 0 0				
Other: _____	0 0 0				Other: _____	0 0 0				Irrigation	0 0 0				
Other: _____	0 0 0				Other: _____	0 0 0				Other: _____	0 0 0				

Industrial Development Stressors				Habitat/Vegetation Stressors											
Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	
Oil Drilling	0 0 0				Forest Clear Cut	0 0 0				Herbicide Use	0 0 0				
Gas Wells	0 0 0				Forest Selective Cut	0 0 0				Mowing/Shrub Cutting	0 0 0				
Mine (surface)	0 0 0				Tree Plantation	0 0 0				Trails	0 0 0				
Mine (underground)	0 0 0				Tree Canopy Herbivory (INSECT)	0 0 0				Soil Compaction (ANIMAL OR HUMAN)	0 0 0				
Military	0 0 0				Shrub Layer Browsed (WILD OR DOMESTIC)	0 0 0				Offroad vehicle damage	0 0 0				
Other: _____	0 0 0				Highly Grazed Grasses (OVERALL <3" HIGH)	0 0 0				Soil erosion (FROM WIND, WATER, OR OVERUSE)	0 0 0				
Other: _____	0 0 0				Recently Burned Forest Canopy	0 0 0				Other: _____	0 0 0				
Other: _____	0 0 0				Recently Burned Grassland (BLACKENED)	0 0 0				Other: _____	0 0 0				

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

2428168304

FORM B-1: BUFFER SAMPLE PLOTS - TARGETED ALIEN SPECIES (Back)  
 Site ID: RABe1383 DATE: 08/31/2013  
 Reviewed by (initials):

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

Fill bubble if present - Plot 1	2	3	Flag	Fill bubble if present - Plot 1	2	3	Flag	Fill bubble if present - Plot 1	2	3	Flag
Eurasian Watermilfoil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Purple Loosestrife	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Johnson Grass	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Yellow Flagging Heart	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Knotweed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Kudzu	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Giant Hyacinth	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Japanese Knotweed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Multiflora Rose	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Giant Salvinia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Perennial Pepperweed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Common Buckthorn	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Garlic Mustard	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Giant Reed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Himalayan Blackberry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Poison Hemlock	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Chenopodium	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Tamarsk	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mile-A-Minute Weed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Reed Canary Grass	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<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"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Canada Thistle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Leafy Spurge	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
AA CENTER	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Nearest practicable location (flag and comment below)							
Flag											

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

If Buffer Plot 3 can not be accessed, take the coordinates of 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. If Buffer Plot 3 can not be accessed to the center of Plot 3 as possible or at the center of the last accessible Buffer Plot.

Latitude North 41.37858 Longitude West 0.8157466 Use Decimal Degrees; NAD83

Location of coordinates (choose one):

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

Flag

Comments

Approached very steep & pass, bly dangerous slope for plot 3.

Ligusdwu,

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

Reviewed by (Initial): \_\_\_\_\_

Site ID: PCAP Be 1383DATE: 08/21/2013

Location:

 AA Center    ON    OS    E    OW

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

 Plot 1    Plot 2    Plot 3

## Buffer Natural Cover Strata

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

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

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

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

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

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

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

2428168304

Buffer Sample Plots 05/27/2011

ligustrum, vetch, rose

FORM B-1: BUFFER SAMPLE PLOTS - TARGETED ALIEN SPECIES (Back) Rev 1/2006

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

Site ID: PCAPBE 1383

—:(www) fa permanen

Flag F111 bubble if present - Pilot 1 2 3 Flag F111 bubble if present - Pilot 1 2 3 Flag F111 bubble if present - Pilot 1 2 3 Flag F111 bubble if present - Pilot 1 2 3

• Confirm a filled data bubble indicates presence and an unfilled bubble indicates absence

www.english-test.net

Site ID: 081383 Date: 08/13/21

Reviewed by (initials): \_\_\_\_\_

FORM B-1: BUFEER SAMPLE PLOTS - TARGETED ALIEN SPECIES

11. *What is the primary purpose of the following statement?*

Digitized by srujanika@gmail.com

For more information, contact the Office of the Vice President for Research and the Office of the Vice President for Student Affairs.

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

Reviewed by (Initial): \_\_\_\_\_

Site ID: PCAP Bc 1383

DATE: 08/21/2013

Location:

O AA Center O N O S O E O W

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

O Plot 1 O Plot 2 O Plot 3

## Buffer Natural Cover Strata

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

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

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

Industrial Development Stressors				Habitat/Vegetation Stressors											
Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	
Oil Drilling	0	0	0		Forest Clear Cut	0	0	0		Herbicide Use	0	0	0		
Gas Wells	0	0	0		Forest Selective Cut	0	0	0		Mowing/Shrub Cutting	0	0	0		
Mine (surface)	0	0	0		Tree Plantation	0	0	0		Trails	0	1	0	2	
Mine (underground)	0	0	0		Tree Canopy Herbivory (INSECT)	0	0	0		Soil Compaction (ANIMAL OR HUMAN)	0	0	0		
Military	0	0	0		Shrub Layer Browsed (WILD OR DOMESTIC)	0	0	0		Offroad vehicle damage	0	0	0		
Other: _____	0	0	0		Highly Grazed Grasses (OVERALL <3 HIGH)	0	0	0		Soil erosion (FROM WIND, WATER, OR OVERUSE)	0	1	0	1	
Other: _____	0	0	0		Recently Burned Forest Canopy	0	0	0		Other: _____	0	0	0		
Other: _____	0	0	0		Recently Burned Grassland (BLACKENED)	0	0	0		Other: _____	0	0	0		

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

2428168304

Buffer Sample Plots 05/27/2011

Flag	Comments
	1 River banks & edge of buffer plot 1
	2 West edge of buffer plot 2 is sunfaded tree

Flag	Location of coordinates (choose one):
	Latitude North 41 37 45.7 Longitude West 081 57 46.5 Use Decimal Degrees; NAD83
<input type="checkbox"/> AA CENTER <input type="checkbox"/> N3 <input checked="" type="checkbox"/> S3 <input type="checkbox"/> E3 <input type="checkbox"/> W3 <input type="checkbox"/> Nearest practicable location (Flag and comment below)	
Provide GPS coordinates at the center of the Buffer Plot (#3) at the far end of each Buffer Transect and for the Buffer Plot at the AA CENTER. Indicate the location of the plot coordinates by filling in the appropriate bubble.	
If Buffer Plot 3 can not be accessed, take the coordinates at the nearest practicable location ALONG THE TRANSECT. This is important because all Buffer Plots are centred 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 on the Buffer Transects or at the center of the last accessible Buffer Plot.	

PLOT COORDINATES											
<input type="checkbox"/> Flag	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> Flag	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> Flag	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3
Fill bubble if present - Plot 1				Fill bubble if present - Plot 1				Fill bubble if present - Plot 1			
Eurasian Watermilfoil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Purple Loosestrife	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Johnson Grass	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Water Hyacinth	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Knotweed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Kudzu	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Yellow Floating Heart	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Japanese Knotweed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Multiflora Rose	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Giant Salvinia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Perennial Pepperweed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Common Buckthorn	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Garlic Mustard	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Giant Reed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Himalayan Blackberry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Poison Hemlock	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Chenopodium	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Tamariisk	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mile-A-Minute Weed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Reed Canary Grass	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Birdsfoot Trefoil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Common Reed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Canadian Thistle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Leaffy Spurge	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

Site ID: PCAP BC 1383	Date: 08/21/2013
FORM B-1: BUFFER SAMPLE PLOTS - TARGETED ALIEN SPECIES (Back)	
Reviewed by (Initials):	

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

Reviewed by (Initial): \_\_\_\_\_

Site ID: PCAP Be 1383

DATE: 08/21/2013

Location:

O AA Center O N O S O E O W

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

O Plot 1 O Plot 2 O Plot 3

1

## 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(&lt;10%); 2=Moderate(10-40%); 3 = Heavy (40-75%); 4 = Very Heavy (&gt;75%)

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

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

Residential and Urban Stressors					Hydrology Stressors					Agricultural & Rural Stressors				
Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag
Road - gravel	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Ditches, Channelization	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Pasture/Hay	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Road - two lane	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Dike/Dam/Road/RR Bed (IMPEDE FLOW)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Range	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Road - four lane	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Water Level Control Structure	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Row Crops	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Parking Lot/Pavement	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Excavation, Dredging	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Fallow Field (RECENT-RESTING ROW CROP FIELD)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Golf Course	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Fill/Spoil Banks	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Fallow Field (OLD - GRASS, SHRUBS, TREES)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Lawn/Park	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Freshly Deposited Sediment (UNVEGETATED)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Nursery	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Suburban Residential	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Soil Loss/Root Exposure	<input type="radio"/>	<input checked="" 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 checked="" 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 checked="" type="radio"/>	<input checked="" 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.

Buffer Sample Plots 05/27/2011

2428168304

1. *Very steep slope - unsafe to proceed to Buffer Plot 3*

Flag	Comments		
	Latitude North	Longitude West	Use Decimal Degrees; NAD83
41 37 48	57 53 5		
<input type="radio"/> AA CENTER <input type="radio"/> O N3 <input type="radio"/> O E3 <input type="radio"/> O W3 <input checked="" type="radio"/> Nearest practicable location (flag and comment below)			
Location of coordinates (choose one): <b>A</b>			
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 centred on the Buffer Transects and the location of the transect. Fill in the "nearest practicable location" bubble, fill in the flag box, and describe where the coordinates were taken and why in the comment section below. The coordinates of the nearest practicable location can be either placed as close to the center of Plot 3 as possible or at the center of the last accessible Buffer Plot.			

PLOT COORDINATES											
	1	2	3	Flag	1	2	3	Flag	1	2	3
Fill bubble if present - Plot	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fill bubble if present - Plot	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fill bubble if present - Plot	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Eurasian Watermilfoil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Purple Loosestrife	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Johnson Grass	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Water Hyacinth	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Knotweed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Kudzu	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Yellow Floating Heart	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Japanese Knotweed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Multiflora Rose	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Giant Salvinia	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Pernatal Pepperweed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Common Buckthorn	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Garlic Mustard	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Giant Reed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Himalayan Blackberry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Potion Hemlock	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Chelgrass	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Tamarsk	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mile-A-Minute Weed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Reed Canary Grass	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Birdsfoot Trefoil	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Common Reed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Canada Thistle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Leafy Spurge	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

Site ID: PCAP BE 1383 DATE: 08/21/2013