

CLEVELAND METROPARKS Plant Community Assessment Program: Quality Control Form

Project Label:

PCAP

Plot No: 1302

6/12/13 4 Cleveland Metroparks
Date Sampled: 6/14/13 Lead: TAL

Comment required if item answer is NO

Parking/Access outside of Park Boundaries:	Y <input checked="" type="radio"/> N <input type="radio"/>	If yes, write details in Comments section below
Field journals completed	Y <input checked="" type="radio"/> N <input type="radio"/>	
Site sketch made on 1:3000 map?	Y <input checked="" type="radio"/> N <input type="radio"/>	
Check cover page	X-axis Bearing of plot recorded	Y <input checked="" type="radio"/> N <input type="radio"/>
	GPS coords Recorded	Y <input checked="" type="radio"/> N <input type="radio"/>
	North direction recorded	Y <input checked="" type="radio"/> N <input type="radio"/>
	Photographs taken?	Y <input checked="" type="radio"/> N <input type="radio"/>
Plot No., Date agreement on all pages?	Y <input checked="" type="radio"/> N <input type="radio"/>	
Header data completed all pages?	Y <input checked="" type="radio"/> N <input type="radio"/>	
Cover classes recorded in all Intensive modules	Y <input checked="" type="radio"/> N <input type="radio"/>	
Browse Level By Species	Y <input checked="" type="radio"/> N <input type="radio"/>	
Woody stem quality control check	Y <input checked="" type="radio"/> N <input type="radio"/>	
Invasive plant quality control check	Y <input checked="" type="radio"/> N <input type="radio"/>	
Ash trees mapped	Y <input checked="" type="radio"/> N <input type="radio"/>	
Cover by Strata? (confirm cover type)	Y <input checked="" type="radio"/> N <input type="radio"/>	
Soil samples collected with matching plot #.	Y <input checked="" type="radio"/> N <input type="radio"/>	
Vouchers labeled on datasheet with initials and number	Y <input checked="" type="radio"/> N <input type="radio"/>	
Vouchers labeled on collection bag	Y <input checked="" type="radio"/> N <input type="radio"/>	
Pink flags removed	Y <input checked="" type="radio"/> N <input type="radio"/>	
Data sheet QA before leaving site?	Y <input checked="" type="radio"/> N <input type="radio"/>	
Common equipment returned to tub.	Y <input checked="" type="radio"/> N <input type="radio"/>	
Data sheets scanned?		Enter date to left RC 6/20
Final data sheets scanned?		Enter date to left
Buffer Widths measured?	Y <input checked="" type="radio"/> N <input type="radio"/>	RC 6/20
Web Soil Survey	Y <input checked="" type="radio"/> N <input type="radio"/>	RC 6/20
Voucher Location	Refrigerator	Y <input checked="" type="radio"/> N <input type="radio"/>
(# vouchers collected)	Press (#)	Enter number to left
TAL 003		
TAL 004		
TAL 006		
TAL 007		
	Thrown away	Y <input checked="" type="radio"/> N <input type="radio"/>

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

Rock
Run

Page 1 of 2

GENERAL INFORMATION		LOCATION	
<u>Project Label:</u>	PCAP	<u>State:</u> OH	<u>County:</u> Cuyahoga

Did have intership cor
lak

intensive mode 2 and
Jid hav intensive cor-
sol

Project Name:	01 RR 2013
Plot Name:	Cut Skull
Plot No.:	1302

<input type="checkbox"/> Level 4 (no nested corners sampled)	
<input checked="" type="checkbox"/> Level 5 (nested corners sampled)	
Date (mm/dd/yyyy): <u>06/12/13</u>	
End date (if > 1 day): <u>06/14/13</u>	
Party	Role**
Reason: If data not public why?	

Tom Lacoste	Plot leader
Sergio Cebolla	<input type="checkbox"/> MAP <input checked="" type="checkbox"/> GPS
Beth Assistant	
Coordinate system:	<u>Coord. Units</u>
<input checked="" type="checkbox"/> Lat/Long <input type="checkbox"/> UTM <input type="checkbox"/> StatePlane	<input checked="" type="checkbox"/> deg <input type="checkbox"/> deg min
<input type="checkbox"/> Other (specify)	<input type="checkbox"/> m <input type="checkbox"/> ft <input type="checkbox"/> ...
Datum:	<input checked="" type="checkbox"/> NAD83/WGS84 <input type="checkbox"/> NAD27

Notes: include Layout (any unusual shape details), Location (functions and landscape content), Rationale (why here), and Veg Characterization (description of community, dominants, strata, BROWSE). Additional notes in space on back.

• Roles: Co-leader, Asst. Guide, Owner, Taxonomist, etc.
PLOT NOT SAMPLED:
<input type="checkbox"/> Other
<input type="checkbox"/> Perm. water <input type="checkbox"/> Paved <input type="checkbox"/> Slope <input type="checkbox"/> Safety
SAMPLING QUALITY*
GPS location in plot x=0 to 5, y=-1.0,+1: x = <u>0</u> y = <u>1</u> (base of plot x=0, y=0)
Latitude: <u>41°33'02.28"</u>
Longitude: <u>081.86494</u>

lot south of plot on Valley Way, trail trail to plot, plot 10s along bank of Rocky River on a slope rising to the west.

Effort Level:	Very thorough
GPS File Name:	1302A
Plot size for cover data:	0.1 (hectares)
X-axis Bearing of plot:	[134] °

Very characterization: *Quercus alba*, *rubra*,
Fagus grandifolia. Shrub in prairie, under-story
dominated by *Acer saccharum*, in some, *carpinus*,

TAXONOMIC ACCURACY				
	high	modera.	low	not smpl
vascul.	✓			n/a
bryo			✓	
lichen			✓	

Depth: (1-5): 4

<u>Intensive modules:</u> 2 3 8 9 - 12 29 10	
EDIT IF MODIFIED	
<u>Camera No.:</u>	5
<u>Photo Nos.:</u>	2258 2303
<u>Plot placement:</u>	✓ GRS <input type="checkbox"/> Representative
<input type="checkbox"/> Random <input type="checkbox"/> Stratified Random <input type="checkbox"/> Transect component <input type="checkbox"/> Systematic (grid) <input type="checkbox"/> Capture specific feature <input type="checkbox"/> Other	

and Ostoya and larger in the understory. Mostly Red oak in mature canopy with Tilia and large oaks. Understory herbaceous vegetation is sparse, most very low. Common Fraxinus spp. Many plants are browsed

Minimum required fields in Bold and Underlined

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

Project Label:

PCAP

Project name: ORP2013

Plot no.: 1302

Page 1 of 4

Total modules:

10

Intensive modules:

4 Plot configuration: 2x3

Plot area (ha): 0.1



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

Estimate for each intensive module:

%open water

%unvegetated open water

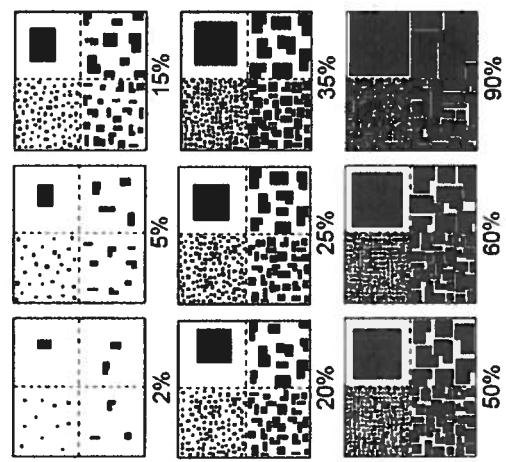
%unveg. ground (bare soil)

%unveg. litter (bare litter)

mod corner

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.



111

solitary or few	% cover	midpoint	0.0001
-----------------	---------	----------	--------

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	

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

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

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

MEDIUM: browse affects greater than 10 percent and less than 25 percent of stems in the 1 m² nested and alluvium exhibit browse.

quadrat and intensive module. A browse line is usually not evident or obvious for all classes and species of vegetation, but careful examination may show

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

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

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

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

VERY HIGH values include extensive browse conditions, where the browse line is very evident AND almost all

Seedlings and herbs are severely browsed or missing. Browse line may be 5 to 6 feet in height with no or little green growth beneath.

50m

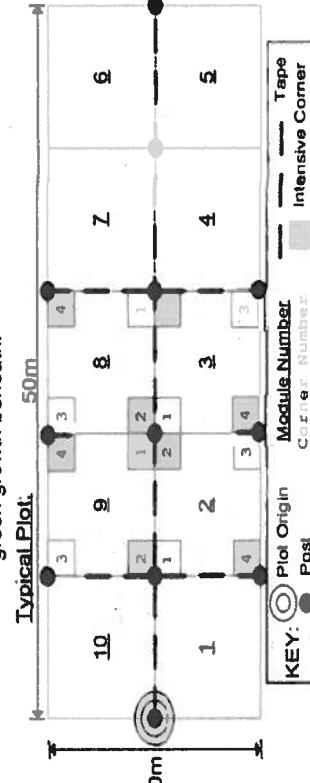
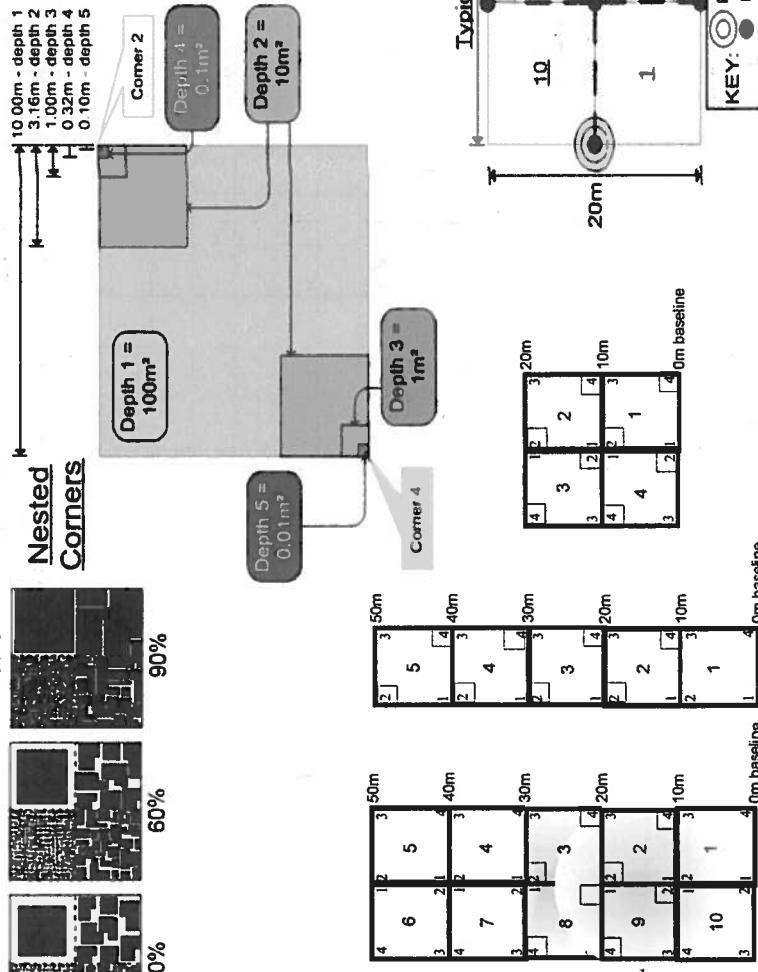
6
7
8
9

52
4
31
2
4

Module Number	Corner Number	Intensive Corner	Tape
101	101	101	101

22bCM PCAP Species Cover Data Sheet Back Page_13.ppt

Natural Resources Management FORM NR/2010-02b



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

Project Label:

PCAP

Project name: IRRADI

Plot no.: 303

1

Total modules:

16

Intensive modules: 4 Plot configuration: 2x5

Plot area (ha): 0.1

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

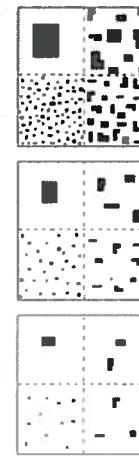
Estimate for each intensive module:

Strata - Cov. entire plot

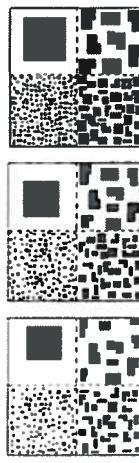
11

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.



5% 20% 25% 35%



15% 20% 25% 35%



50% 60% 70% 80%



90% 95% 99%

BROWSE RATING NARRATIVE DESCRIPTION

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

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

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

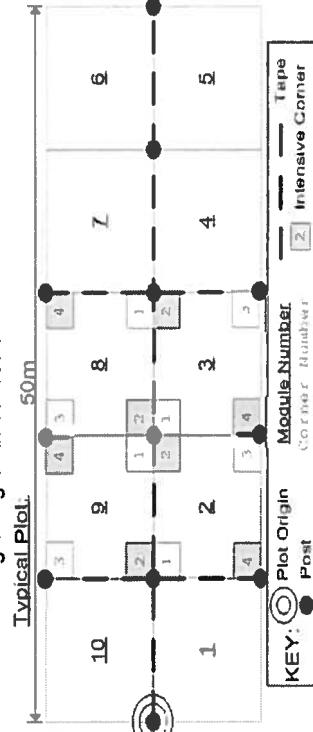
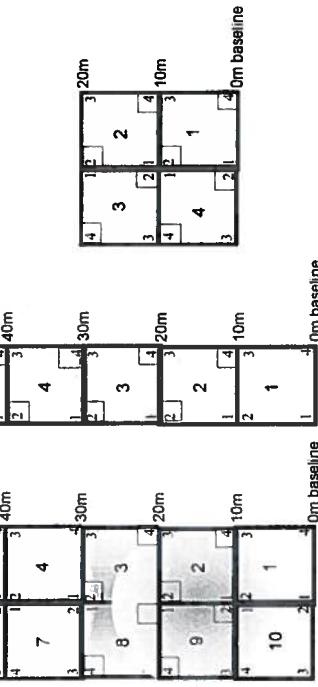
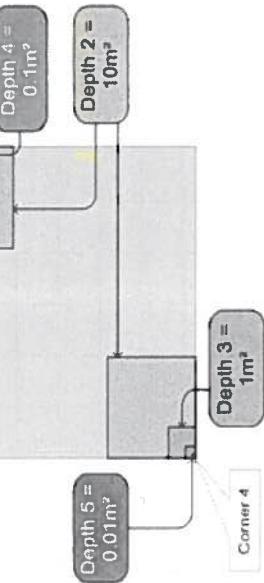
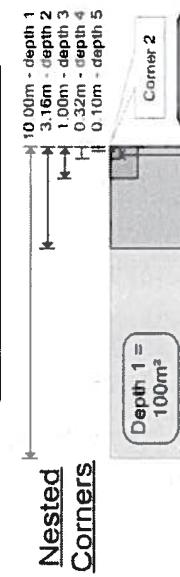
MEDIUM HIGH values include evidence of a browse line and 25 percent of stems browsed with very little vegetation regeneration evident. In this rating, for some species of plants, reproduction does not appear to occur or it is very severely limited.

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

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

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

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



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

Project Label: PCAP

Project name: DLR2013

Plot no.: 1302

100

Total modules:

Intensive modules: 4 Plot configuration: 2x5

Plot area (ha): 0.1



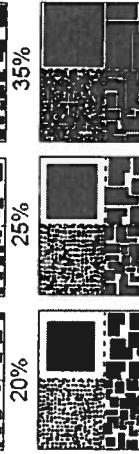
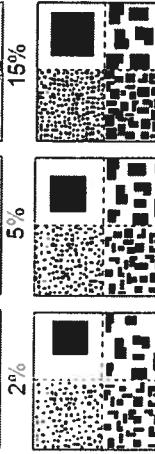
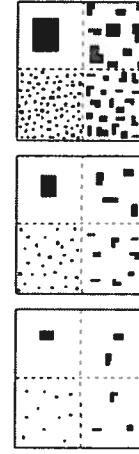
Cleveland Metroparks describe amount of browse per species over entire plot

describe amount of browse per species over entire plot

Estimate for each intensive module:

EXAMPLES OF PERCENT OF AREA COVERED

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



50% 60% 90% 90%

BROWSE RATING NARRATIVE DESCRIPTION

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

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

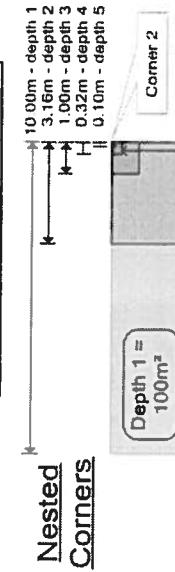
MEDIUM: browse affects greater than 10 percent and less than 25 percent of stems in the 1 m² nested quadrat and intensive module. A browse line is usually not evident or obvious for all classes and species of vegetation, but careful examination may show preferential browse and/or browse lines for some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

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

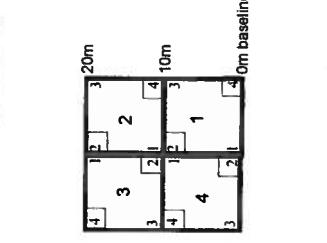
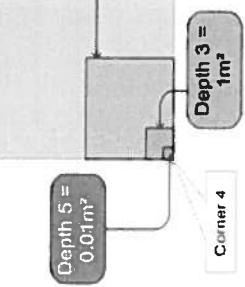
HIGH: greater than 25 percent of the stems of plants in the 1 m² nested quadrat and intensive module **AND** a browse line is evident.

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

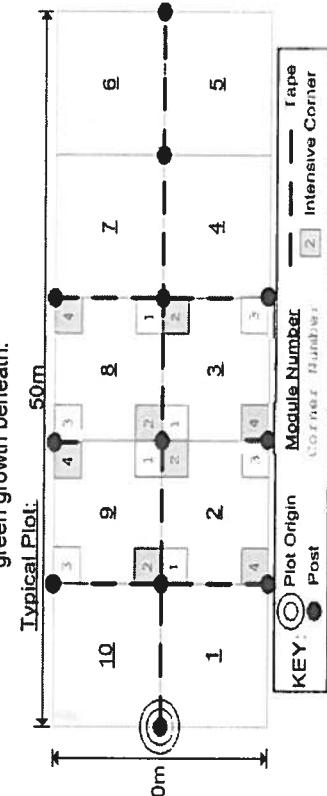
cover class	% cover	midpoint
1	solitary or few	0.0001
2	0-1%	0.005
3	1-2%	0.015
4	2-5%	0.035
5	5-10%	0.075
6	10-25%	0.175
7	25-50%	0.375
8	50-75%	0.625
9	75-95%	0.850
10	95-100%	0.975



20% 25% 35% 50%



50m



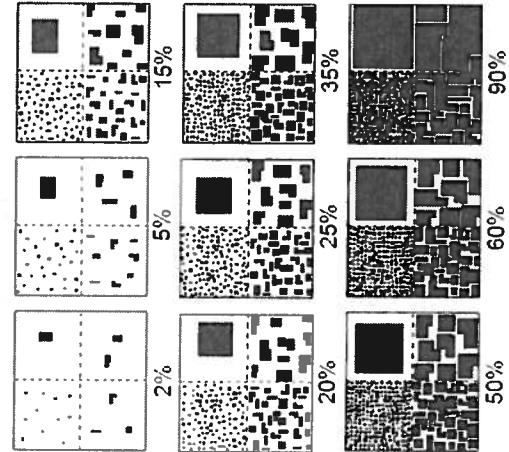
50m



50m

EXAMPLES OF PERCENT OF AREA COVERED

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



BROWSE RATING NARRATIVE DESCRIPTION

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

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

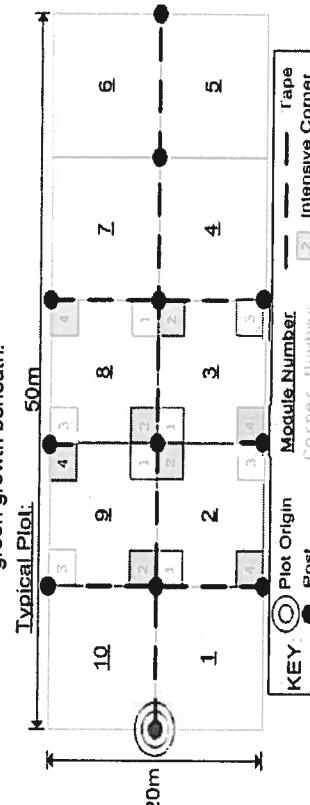
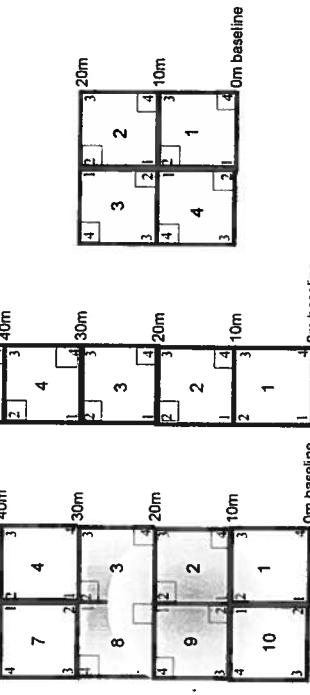
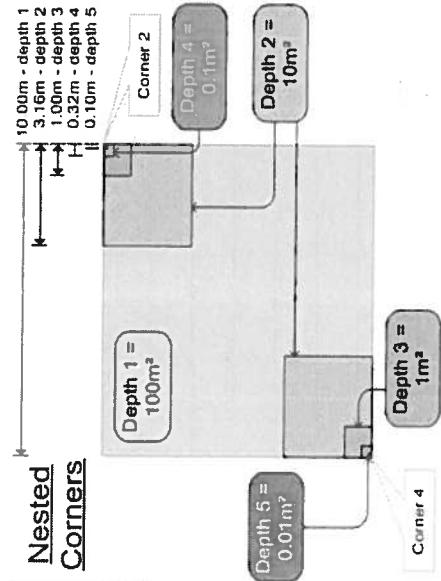
MEDIUM: browse affects greater than 10 percent and less than 25 percent of stems in the 1 m² nested quadrat and intensive module. A browse line is usually not evident or obvious for all classes and species of vegetation, but careful examination may show preferential browse and/or browse lines for some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

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

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

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

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



CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP

Project Name: 01 R R 2013

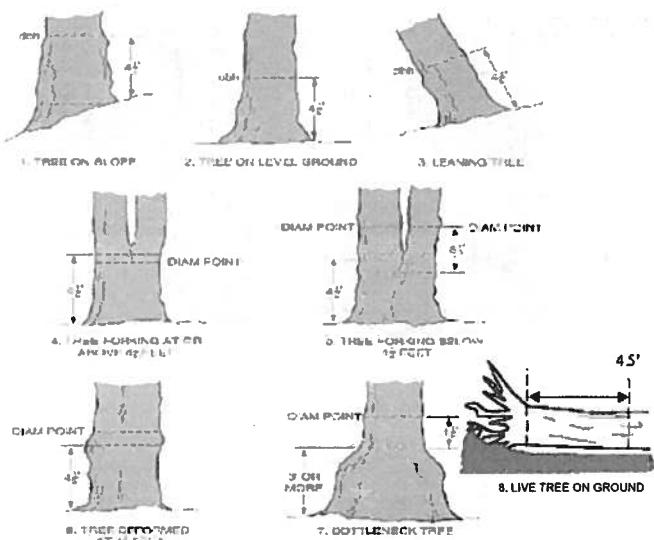
Plot No.: 130a

Page: 1 of 3 

Explain subsample (additional room on back).

mod #	species	c	voucher#	browsed	# sub sample	# clumps	size class (cm) woody stems > 1.4m										>40 (record each tree)
							0-1.4m	1-2.5	2.5-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	
1	<i>Acer saccharum</i>				3	3	3	3	3	3	3	3	3	3	3	3	
1	<i>Ostrya virginiana</i>				3	3	3	3	3	3	3	3	3	3	3	3	
1	Standing dead				3	3	3	3	3	3	3	3	3	3	3	3	
1	<i>Fagus grandifolia</i>				3	3	3	3	3	3	3	3	3	3	3	3	
1	<i>Fraxinus pennsylvanica</i>				3	3	3	3	3	3	3	3	3	3	3	3	
1	Standing dead				3	3	3	3	3	3	3	3	3	3	3	3	
2	<i>Acer saccharum</i>				3	3	3	3	3	3	3	3	3	3	3	3	
2	<i>Ostrya virginiana</i>				3	3	3	3	3	3	3	3	3	3	3	3	
2	<i>Quercus rubra</i>				3	3	3	3	3	3	3	3	3	3	3	3	
2	<i>Fraxinus pennsylvanica</i>				3	3	3	3	3	3	3	3	3	3	3	3	
2	<i>Quercus alba</i>				3	3	3	3	3	3	3	3	3	3	3	3	
2	<i>Tilia americana</i>				3	3	3	3	3	3	3	3	3	3	3	3	
2	<i>Euonymus americanus</i>				3	3	3	3	3	3	3	3	3	3	3	3	
3	<i>Acer saccharum</i>				3	3	3	3	3	3	3	3	3	3	3	3	80.7
3	Standing dead				3	3	3	3	3	3	3	3	3	3	3	3	
3	<i>Lonicera maackii</i>				3	3	3	3	3	3	3	3	3	3	3	3	
3	<i>Euonymus obovatus</i>				3	3	3	3	3	3	3	3	3	3	3	3	
3	<i>Fraxinus pennsylvanica</i>				3	3	3	3	3	3	3	3	3	3	3	3	
4	<i>Acer saccharum</i>				3	3	3	3	3	3	3	3	3	3	3	3	
4	<i>Prunus serotina</i>				3	3	3	3	3	3	3	3	3	3	3	3	
4	<i>Ostrya virginiana</i>				3	3	3	3	3	3	3	3	3	3	3	3	
4	<i>Toxicodendron radicans</i>				3	3	3	3	3	3	3	3	3	3	3	3	
4	Standing dead				3	3	3	3	3	3	3	3	3	3	3	3	43.5
4	<i>Fraxinus americana</i>				3	3	3	3	3	3	3	3	3	3	3	3	

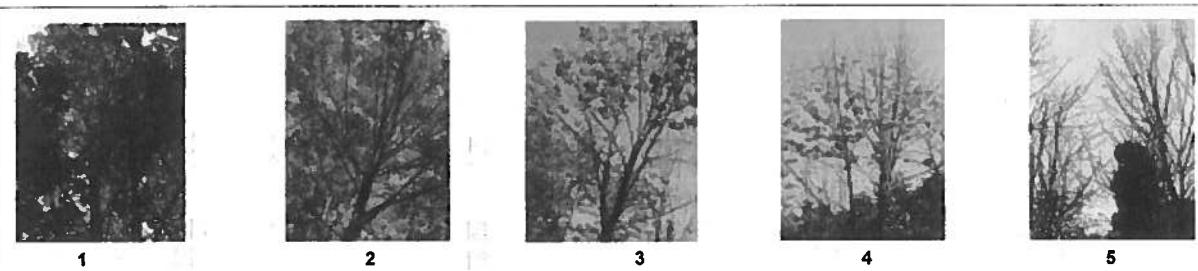
DBH Measurement Rules



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



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 RR & 013

Page: 2 of 3

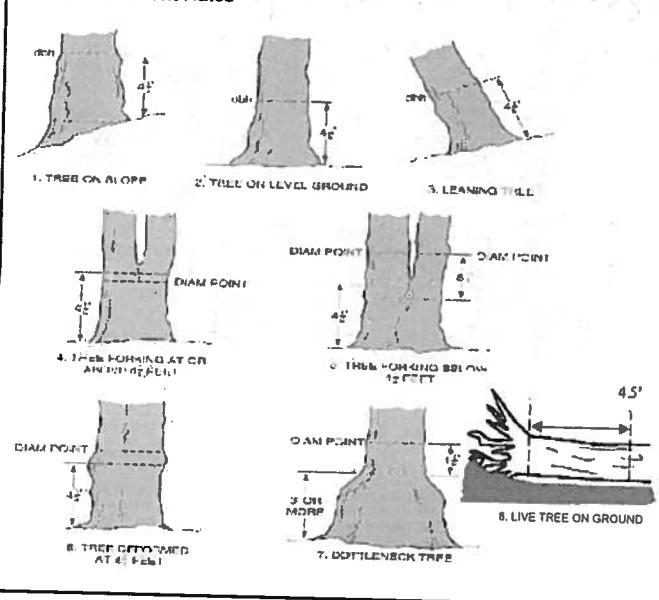
 Cleveland Metroparks

Explain subsample (additional room on back)

med #	species	c	voucher#	# stems 0-1.4m browsed	% sub or super sample	# shrub clumps	size class (cm) woody stems > 1.4m											>40 (record each tree)
							1	2	3	4	5	6	7	8	9	10	11	
4	<i>Carpinus caroliniana</i>						0	0	0	0	0	0	0	0	0	0	0	68.5
4	<i>Quercus rubra</i>						0	0	0	0	0	0	0	0	0	0	0	
5	<i>Acer saccharum</i>						0	0	0	0	0	0	0	0	0	0	0	
5	<i>Quercus rubra</i>						0	0	0	0	0	0	0	0	0	0	0	
5	Standing dead						0	0	0	0	0	0	0	0	0	0	0	
5	<i>Sassafras albidum</i>						0	0	0	0	0	0	0	0	0	0	0	
5	<i>Vitis riparia</i>						0	0	0	0	0	0	0	0	0	0	0	
5	<i>Fraxinus americana</i>						0	0	0	0	0	0	0	0	0	0	0	
6	<i>Acer saccharum</i>						0	0	0	0	0	0	0	0	0	0	0	
6	<i>Quercus rubra</i>						0	0	0	0	0	0	0	0	0	0	0	
6	Standing dead						0	0	0	0	0	0	0	0	0	0	0	
6	<i>Sassafras albidum</i>						0	0	0	0	0	0	0	0	0	0	0	
6	<i>Acer rubrum</i>						0	0	0	0	0	0	0	0	0	0	0	
6	<i>Parthenocissus quinquefolia</i>						0	0	0	0	0	0	0	0	0	0	0	
6	<i>Fraxinus pennsylvanica</i>						0	0	0	0	0	0	0	0	0	0	0	
7	<i>Lindera benzoin</i>						0	0	0	0	0	0	0	0	0	0	0	
7	<i>Acer saccharum</i>						0	0	0	0	0	0	0	0	0	0	0	
7	Standing dead						0	0	0	0	0	0	0	0	0	0	0	
7	<i>Parthenocissus quinquefolia</i>						0	0	0	0	0	0	0	0	0	0	0	
7	<i>Quercus rubra</i>						0	0	0	0	0	0	0	0	0	0	0	
7	<i>Sassafras albidum</i>						0	0	0	0	0	0	0	0	0	0	0	
7	<i>Carica cordifolia</i>						0	0	0	0	0	0	0	0	0	0	0	
7	<i>Fraxinus pennsylvanica</i>						0	0	0	0	0	0	0	0	0	0	0	
8	<i>Lindera benzoin</i>						0	0	0	0	0	0	0	0	0	0	0	

43.5

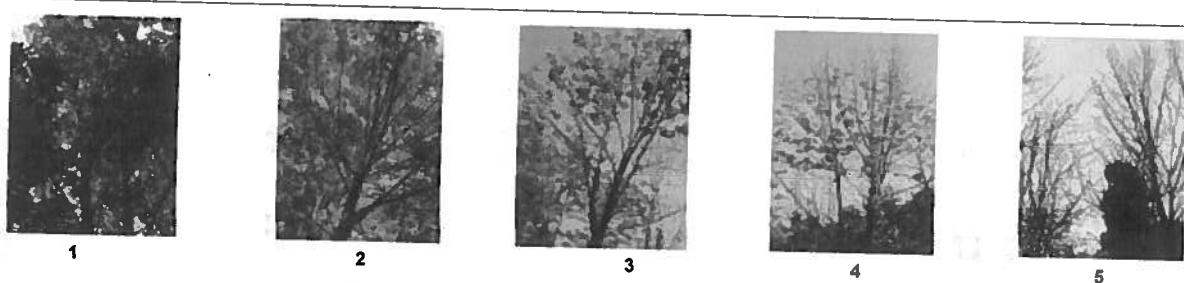
DBH Measurement Rules



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



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: C1RA2013

Plot No.: 1302

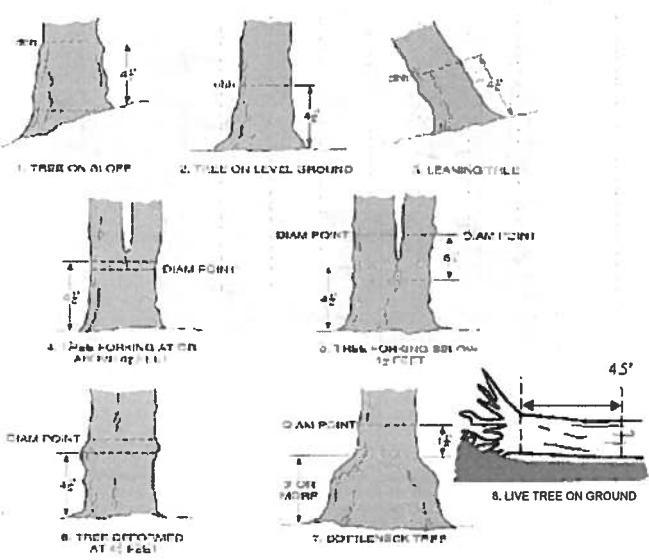
Page: 3

of 3

Explain subsample (additional room on back):

mod #	species	c	voucher#	# stems 0-1.4m browsed	% sub sample	# shrub clumps	size class (cm) woody stems > 1.4m										>40 (record each tree)
							1	2	3	4	5	6	7	8	9	10	
18	<i>Standing dead</i>					0	0	0	0	0	0	0	0	0	0	0	
18	<i>Acer saccharum</i>					0	0	0	0	0	0	0	0	0	0	0	
18	<i>Quercus alba</i>					0	0	0	0	0	0	0	0	0	0	0	
18	<i>Tilia americana</i>					0	0	0	0	0	0	0	0	0	0	0	
18	<i>Fraxinus pennsylvanica</i>					0	0	0	0	0	0	0	0	0	0	0	
18	<i>Vitis riparia</i>					0	0	0	0	0	0	0	0	0	0	0	
18	<i>Quercus rubra</i>					0	0	0	0	0	0	0	0	0	0	0	
18						0	0	0	0	0	0	0	0	0	0	0	
19	<i>Carya cordiformis</i>					0	0	0	0	0	0	0	0	0	0	0	
19	<i>Acer saccharum</i>					0	0	0	0	0	0	0	0	0	0	0	
19	<i>Standing dead</i>					0	0	0	0	0	0	0	0	0	0	0	
19	<i>Populus deltoides</i>					0	0	0	0	0	0	0	0	0	0	0	
19	<i>Fraxinus pennsylvanica</i>					0	0	0	0	0	0	0	0	0	0	0	
19	<i>Quercus rubra</i>					0	0	0	0	0	0	0	0	0	0	0	
19	<i>Carpinus caroliniana</i>					0	0	0	0	0	0	0	0	0	0	0	
19	<i>Euonymus oblongatus</i>					0	0	0	0	0	0	0	0	0	0	0	
19	<i>LINSTRUM VULGARE</i>					0	0	0	0	0	0	0	0	0	0	0	
10	<i>Acer saccharum</i>					0	0	0	0	0	0	0	0	0	0	0	
10	<i>Standing dead</i>					0	0	0	0	0	0	0	0	0	0	0	
10	<i>Hamamelis virginiana</i>					0	0	0	0	0	0	0	0	0	0	0	
10	<i>Carya glabra</i>					0	0	0	0	0	0	0	0	0	0	0	
10	<i>Fraxinus pennsylvanica</i>					0	0	0	0	0	0	0	0	0	0	0	
1	<i>Euonymus oblongatus</i>					0	0	0	0	0	0	0	0	0	0	0	
						0	0	0	0	0	0	0	0	0	0	0	

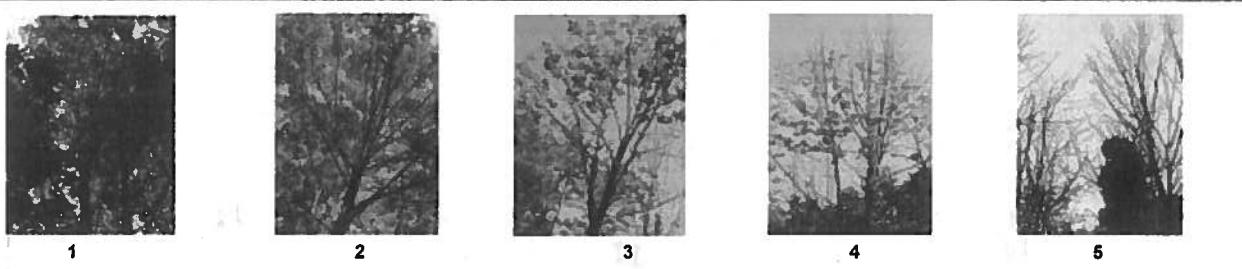
DBH Measurement Rules



Woody Stem Deer Browse

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

Record using the tally system from 1 to 10



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

8

6

1

E

ASH CANOPY BREAKUP CONDITION (for dead trees):

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

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

CLEVELAND METROPARKS Emerald Ash Borer - <i>Fraxinus</i> Sheet							
Project Label: <u>PCAP</u>		Project Name: <u>OIRP 3013</u>		INTENSIVE MODULES ONLY			
				Plot No.: <u>1302</u>			
				Date: <u>06/12/13</u> + <u>6/14/13</u>			
				Page: 1 of 2			

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


Module	Tree ID.	Species	Dead c.	Voucher #	DBH (cm)	Hi @ DBH	Ash condition	*Dead holes	ASH Only	Epicormic present	Woodpecker holes
1	N1 ASH										
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											

Baseline

*** Change intensive module numbers when necessary

9	8
2	3

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

* If Ash Condition scores 5 (dead) provide breakup score (A-E)
 Count EAB exit holes $1.25\text{m}^2 \times \geq 1.5\text{mm}$
 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		
<i>Microstegium vimineum</i>	Japanese stiltgrass						X: yes
<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	# of Plants
		NE	SE	SW	NW		
<i>Acer platanoides</i>	Norway Maple						
<i>Ailanthus altissima</i>	Tree of Heaven						
<i>Lonicera japonica</i> (vine)	Japanese Honeysuckle				3		
<i>Lythrum salicaria</i> (wetland)	Purple Loosestrife						
<i>Aegopodium podagraria</i> (G-cover)	Bishop's Goutweed						
<i>Celastrus orbiculatus</i> (vine)	Asian Bittersweet						
<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)						
<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)			3			
<i>Euonymus fortunei</i>	Wintercreeper				1		
Tier 3: Presence is of Interest		# of Plants				comments	# of Plants
		NE	SE	SW	NW		
<i>Convallaria majalis</i> (G-cover)	Lily of the Valley						
<i>Coronilla varia</i> (G-cover)	Crown Vetch						
<i>Eleutherococcus pentaphyllus</i>	Five-leaf Aralia (shrub)						
<i>Pachysandra terminalis</i> (G-cover)	Japanese Pachysandra						
<i>Philadelphus coronarius</i>	Mock Orange (shrub)						
<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)			1			
<i>Viburnum plicatum</i>	Doublefile Viburnum (shrub)						
Tier 4: Widespread and abundant		Presence				comments	# of Plants
		NE	SE	SW	NW		
<i>Alliaria petiolata</i>	Garlic Mustard	3	1	2	13		
<i>Ligustrum vulgare</i>	Common Privet (shrub)	2	1	1	2		
<i>L. morrowii</i> , <i>L. tatarica</i>	Bush Honeysuckles (shrub)			1			
<i>Phalaris arundinacea</i>	Reed Canarygrass		2				
<i>Phragmites australis</i> (wetland)	Phragmites						
<i>Polygonum cuspidatum</i>	Japanese Knotweed						
<i>Frangula alnus</i>	Glossy Buckthorn (shrub)				2		
<i>Rosa multiflora</i>	Multiflora Rose (shrub)	2	1	1	3		
<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						
<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)

SLF
7-17-13

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.

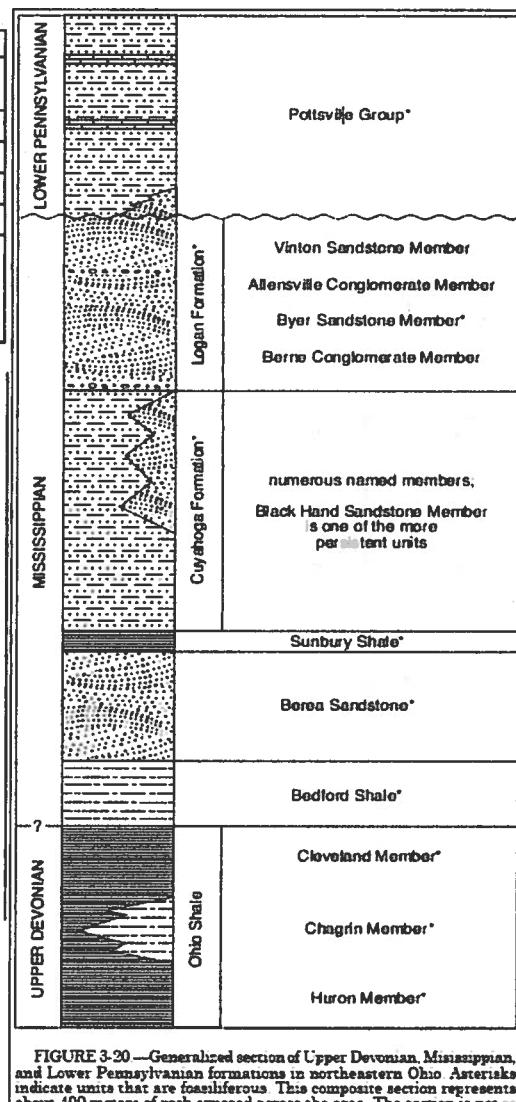
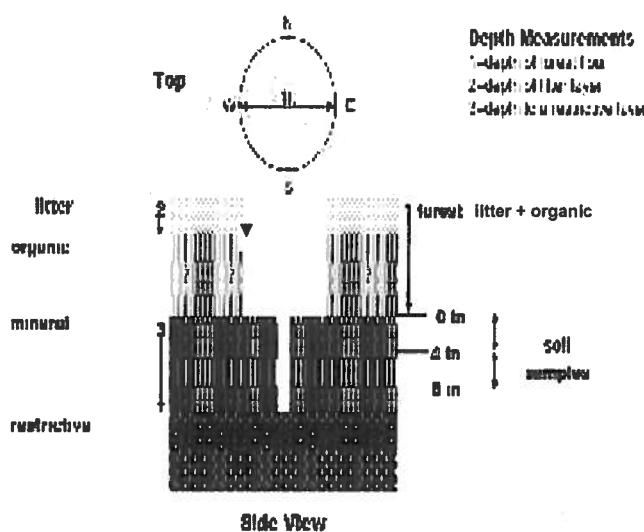


FIGURE 3-20—Generalized section of Upper Devonian, Mississippian, and Lower Pennsylvanian formations in northeastern Ohio. Asterisks indicate units that are fossiliferous. This composite section represents about 400 meters of rock exposed across the area. The section is not to scale but the thicknesses indicated are proportional. The term "Wavy" 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 plug with shovel. Describe using Munsell chart, visual exam, texture, and odor.

Soil pit module # 9 (one per entire plot)

6 cm	matrix color	10YR 3/2
monile color	none	
%smotile	0	
oxid roots	Y	N
texture*	2	
redox features**	Y	N
hydr. cond.***	1 S	W D
matrix color	10YR 3/3	
20 cm		
monile	0	
oxid roots	Y	N
texture*	2	
redox features**	Y	N
hydr. cond. ***	1 S	W D

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

Soil Collection Module (Horizon A, B, C)	
1/2, 2, 1/2	A
1/2, 2, 1/2	
Web Soil Survey Information:	
Soil Series Type: B-F... Brecksville Silt loam	
Landform type: <i>Drainage basin</i>	
Depth to first Layer: 30...40 in. to <i>rock</i>	
Parent Material: <i>Residuum weathered from shale</i>	
DRAINAGE*	
Excessively dr.	<input type="checkbox"/> Somewhat excessively
Well drained	<input type="checkbox"/> Moderately well dr.
✓ Somewhat poorly dr.	<input type="checkbox"/> Very poorly dr.
□ Impenetrable surface	

RC 6/20

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

* refer to texture classes on reverse side
 ** e.g. hydrogen sulfide odor, gleying, etc.
 *** Circle one:
 S=Salinated M=moist D=dry

Notes: include evidence of earthworms (worms, castings, middens)

1	2.0	2.0	0	730
2	1.5	1.5	0	730
9	1.0	1.0	0	730
10	1.5	1.5	0	730

EARTH SURFACE & GROUND COVER	
Underlying Earth Surface*	Ground Cover
(Sum = 100%)	percent
Histosol	0
Mineral Soil	95 95%
Gravel-Cobble*	5 8%
Boulder**	0
Bedrock	0
* Gravel-Cobble = 1/16-10"	Water
** Boulder = > 10 in	Bare Soil
*** > 5 cm in diameter	Rod/Tail
Other:	1

TRAIL INFORMATION:	
record type and cover for each	
Type	% Cover
<input type="checkbox"/> All Purpose	
<input type="checkbox"/> Bridle	
<input type="checkbox"/> Hiking sanctioned	
<input type="checkbox"/> Bootleg unsanctioned	
<input type="checkbox"/> Gravel	
<input type="checkbox"/> Deer	1

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

Strata	Height Range (in.)	Total Cover (%)
Tree	5 -	88 93
Shrub	5 - 5	93
Herb	0 - 5	13

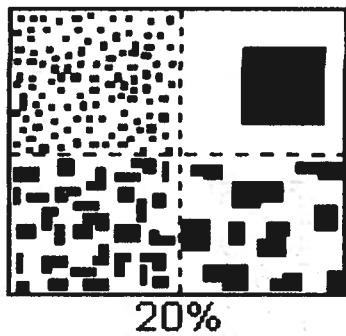
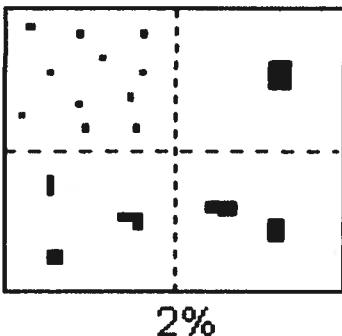
<input type="checkbox"/> >600 x plot size
<input type="checkbox"/> > 100 x plot size
<input type="checkbox"/> 10-100 x plot size
<input type="checkbox"/> 1-10 x plot size
<input type="checkbox"/> 1-3 x plot size
<input type="checkbox"/> < plot size

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.

PERCENT MOTTLES (USE CLASS CODES):

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



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

0= Organic

1= Loamy

2= Clayey

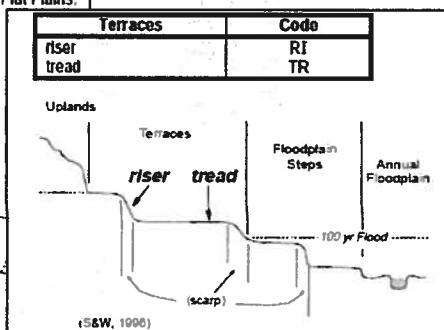
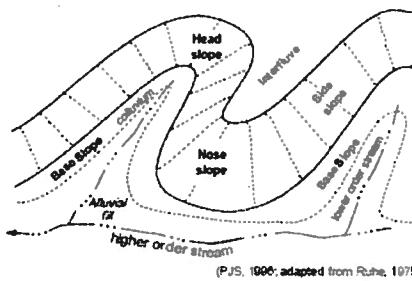
3= Sandy

4= Coarse Sand

9= Not measured - make plot note

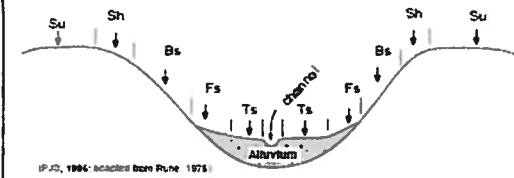
Geomorphic Component - Three-dimensional descriptors of parts of landforms or microfeatures that are best applied to areas. Unique descriptors are available for Hills, Terraces, Mountains, and Flat Plains; e.g., (for Hills) nose slope or NS.

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



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

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



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

UPLAND: Not a wetland. Very rarely flooded.

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

PERMANENTLY/SEMI-PERMANENTLY 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.

SEMI-PERMANENTLY FLOODED (exposed <1/year): Surface water persists throughout the growing season in most years. Land surface is normally saturated when water level drops below soil surface. Includes Cowardin's Intermittently Exposed and 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: PCAPRR1302

DATE: 06/14/2013

Location:

AA Center O N O S O E O W

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

O Plot 1 O Plot 2 O Plot 3

Buffer Natural Cover Strata

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

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

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

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

Residential and Urban Stressors				Hydrology Stressors				Agricultural & Rural Stressors							
Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	
Road - gravel	0	0	0		Ditches, Channelization	0	0	0		Pasture/Hay	0	0	0		
Road - two lane	0	0	0		Dike/Dam/Road/RR Bed (IMPEDE FLOW)	0	0	0		Range	0	0	0		
Road - four lane	0	0	0		Water Level Control Structure	0	0	0		Row Crops	0	0	0		
Parking Lot/Pavement	0	0	0		Excavation, Dredging	0	0	0		Fallow Field (RECENT-RESTING ROW CROP FIELD)	0	0	0		
Golf Course	0	0	0		Fill/Spoil Banks	0	0	0		Fallow Field (OLD - GRASS, SHRUBS, TREES)	0	0	0		
Lawn/Park	0	0	0		Freshly Deposited Sediment (UNVEGETATED)	0	0	0		Nursery	0	0	0		
Suburban Residential	0	0	0		Soil Loss/Root Exposure	0	0	0	2	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	2	Confined Animal Feeding	0	0	0		
Dumping	0	0	0		Point Source/Pipe (EFFLUENT OR STORMWATER)	0	0	0	2	Rural Residential	0	0	0		
Trash	0	0	0		Impervious surface Input (SHEETFLOW)	0	0	0	2	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	1	
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	2	
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)									
<p>Site ID: <u>DCFR1302</u> Date: <u>06/14/2013</u></p> <p>● Confirm a filled data bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble</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>● Buffer Plot 3 can not be accessed, take the nearest practicable location ALONG THE TRANSECT. This is important because all Buffer Plots are centered on the Buffer Transects and the coordinates will indicate the location of the transect. Fill in the "nearest practicable location" bubble, fill in the center of Plot 3 as possible 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.</p> <p>● AA CENTER ○ N3 ○ E3 ○ W3 ○ Nearest practicable location (flag and comment below)</p> <p>Latitude North <u>41.38.06.3</u> Longitude West <u>081.86.50.3</u> Use Decimal Degrees: NAD83</p>									
Flag	Comments								
1	Deer trail through plot								
2	Small thicket leading from road out along cut slope with mud erosion on both sides								
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									
46									
47									
48									
49									
50									
51									
52									
53									
54									
55									
56									
57									
58									
59									
60									
61									
62									
63									
64									
65									
66									
67									
68									
69									
70									
71									
72									
73									
74									
75									
76									
77									
78									
79									
80									
81									
82									
83									
84									
85									
86									
87									
88									
89									
90									
91									
92									
93									
94									
95									
96									
97									
98									
99									
100									
101									
102									
103									
104									
105									
106									
107									
108									
109									
110									
111									
112									
113									
114									
115									
116									
117									
118									
119									
120									
121									
122									
123									
124									
125									
126									
127									
128									
129									
130									
131									
132									
133									
134									
135									
136									
137									
138									
139									
140									
141									
142									
143									
144									
145									
146									
147									
148									
149									
150									
151									
152									
153									
154									
155									
156									
157									
158									
159									
160									
161									
162									
163									
164									
165									
166									
167									
168									
169									
170									
171									
172									
173									
174									
175									
176									
177									
178									
179									
180									
181									
182									
183									
184									
185									
186									
187									
188									
189									
190									
191									
192									
193									
194									
195									
196									
197									
198									
199									
200									
201									
202									
203									
204									
205									
206									
207									
208									
209									
210									
211									
212									
213									
214									
215									
216									
217									
218									
219									
220									
221									
222									
223									
224									
225									
226									
227									
228									
229									
230									
231									
232									
233									
234									
235									
236									
237									
238									
239									
240									
241									
242									
243									
244									
245									
246									
247									
248									
249									
250									
251									
252									
253									
254									
255									
256									
257									
258									
259									
260									
261									
262									
263									
264									
265									
266									
267									
268									
269									
270									
271									
272									
273									
274									
275									
276									
277									
278									
279									
280									
281									
282									
283									
284									
285									
286									
287									
288									
289									
290									
291									
292									
293									
294									
295									
296									
297									
298									
299									
300									
301									
302									
303									
304									
305									
306									
307									
308									
309									
310									
311									
312									
313									
314									
315									
316									
317									
318									
319									
320									
321									
322									
323									
324									
325									
326									
327									
328									
329									
330									
331									
332									
333									
334									
335									
336									
337									
338									
339									
340									
341									
342									
343									
344									
345									
346									
347									
348									
349									
350									
351									
352									
353									
354									
355									
356									
357									
358									
359									
360									
361									
362									
363									
364									
365									
366									
367									
368									
369									
370									
371									
372									
373									
374									
375									
376									
377									
378									
379									
380									
381									
382									
383									
384									
385									
386									
387									
388									
389									
390									
391									
392									
393									
394									
395									
396									
397									
398									
399									
400									
401									
402									
403									
404									
405									
406									
407									
408									
409									
410									
411									
412									
413									
414									
415									
416									
417									
418									
419									
420									
421									
422									
423									
424									
425									
426									
427									
428									
429									
430									
431									
432									
433									
434									
435									
436									
437									
438									
439									
440									
441									
442									
443									
444									
445									
446									
447									
448									
449									
450									
451									
452									
453									
454									
455									
456									
457									
458									
459									
460									
461									
462									
463									
464									
465									
466									
467									
468									
469									
470									
471									
472									
473									
474									
475									
476									
477									
478									
479									
480									
481									
482									
483									
484									
485									
486									
487									
488									
489									
490									
491									
492									
493									
494									
495									
496									
497									
498									
499									
500									
501									
502									
503									
504									
505									
506									
507									
508									
509									
510									
511									
512									
513									
514									
515									
516									
517									
518									
519									
520									
521									
522									
523									
524									
525									
526									
527									
528									
529									
530									
531									
532									
533									
534									
535									
536									
537									
538									
539									
540									
541									
542									
543									
544									
545									
546									
547									
548									
549									
550									
551									
552									
553									
554									
555									
556									
557									
558									
559									
560									
561									
562									
563									
564									
565									
566									
567									
568									
569									
570									
571									
572									
573									
574									
575									
576									
577									
578									
579									
580									
581									
582									
583									
584									
585									
586									
587									
588									
589									
590									
591									
592									
593									
594									
595									
596									
597									
598									
599									
600									

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): _____

Site ID: PCAPRR1301

DATE: 06/14/2013

Location:

O AA Center O N O S O E O W

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

O Plot 1 O Plot 2 O Plot 3

Buffer Natural Cover Strata

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

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

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

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

Residential and Urban Stressors				Hydrology Stressors				Agricultural & Rural Stressors							
Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	
Road - gravel	0	0	0		Ditches, Channelization	0	0	0		Pasture/Hay	0	0	0		
Road - two lane	0	1	0	1	Dike/Dam/Road/RR Bed (IMPEDE FLOW)	0	0	0		Range	0	0	0		
Road - four lane	0	0	0		Water Level Control Structure	0	0	0		Row Crops	0	0	0		
Parking Lot/Pavement	0	0	0		Excavation, Dredging	0	0	0		Fallow Field (RECENT-RESTING ROW CROP FIELD)	0	0	0		
Golf Course	0	0	0		Fill/Spoil Banks	0	0	0		Fallow Field (OLD - GRASS, SHRUBS, TREES)	0	0	0		
Lawn/Park	0	0	0		Freshly Deposited Sediment (UNVEGETATED)	0	0	0		Nursery	0	0	0		
Suburban Residential	0	0	0		Soil Loss/Root Exposure	0	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	1	0		Point Source/Pipe (EFFLUENT OR STORMWATER)	0	1	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	1	0	1	
Mine (underground)	0	0	0		Tree Canopy Herbivory (INSECT)	0	0	1	2	Soil Compaction (ANIMAL OR HUMAN)	0	1	0		
Military	0	0	0		Shrub Layer Browsed (WILD OR DOMESTIC)	0	1	0		Offroad vehicle damage	0	0	0		
Other: _____	0	0	0		Highly Grazed Grasses (OVERALL > HIGH)	0	0	0		Soil erosion (FROM WIND, WATER, OR OVERUSE)	0	0	0		
Other: _____	0	0	0		Recently Burned Forest Canopy	0	0	0		Other: _____	0	0	0		
Other: _____	0	0	0		Recently Burned Grassland (BLACKENED)	0	0	0		Other: _____	0	0	0		

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

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

2428168304

Buffer Sample Plots 05/27/2011

L. Jap Glossy Fortunea

Crossed road and APT in route to site 2

Comments

Flag

Use Decimal Degrees: NAD83

Latitude North **A1** 38.057 Longitude West **081.8657**

Location of coordinates (choose one):
 AA CENTER O3 S3 E3 W3 Nearest practicable location (flag and comment below)

Flag

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

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

PLOT COORDINATES

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

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

Site ID: **06/14/2013** Date: **06/14/2013**

Reviewed by (initials):

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

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): _____

Site ID: PCAPRR1302

DATE: 06/14/2013

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(<10%); 2 = Moderate(10-40%); 3 = Heavy (40-75%); 4 = Very Heavy (>75%)

Buffer Plot 1	Canopy Type: D E		Absent: 0	Buffer Plot 2	Canopy Type: D E		Absent: 0	Buffer Plot 3	Canopy Type: D E		Absent: 0
	Leaf Type: B N	Flag	Leaf Type: B N		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.

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

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

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

2428168304

assessed plot 26 hide river, visually

Flag

Comments

Use Decimal Degrees: NAD83

Latitude North **41.38001** Longitude West **126.435**

Flag

Location of coordinates (choose one):
 AA CENTER N3 S3 E3 W3 Nearest practicable location (flag and comment below)

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

Provide GPS coordinates at the center of the Buffer Plot (#3) at the 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.

PLOT COORDINATES

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

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

Site ID: **PCAPRK1302** DATE: **06/14/2013**

Reviewed by (initials):

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

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

Reviewed by (Initial): _____

Site ID: PPAPRR1302DATE: 06/14/2013

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

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

PLOT COORDINATES

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

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

Location of coordinates (choose one):

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

Flag

1Latitude North 41.97135
40Longitude West 081.2311
082

Use Decimal Degrees; NAD83

Flag	Comments
<input checked="" type="radio"/>	E baseline of plot 1 landed in the river. There were some overhanging trees contributing to cover.

7966623548

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

Reviewed by (Initial): _____

Site ID: PCAPRR1302DATE: 06/14/2013

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

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

PLOT COORDINATES

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

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

Location of coordinates (choose one):

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

Flag

--

Latitude North 41.38171 Longitude West 0.9186523

Use Decimal Degrees; NAD83

Flag	Comments
1	Boatleg trail follows parallel to road
2	Pipe from road cuts down slope to river. Channel deeper with more erosion than channel in plot. Severe
3	Road NW of plot ~ 5m

7966623548

