

CLEVELAND METROPARKS Plant Community Assessment Program: Quality Control Form



Project Label:

PCAP

Plot No: 1277

Date Sampled: 8-7-12

Lead: Barton

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?	8-9-12	Enter date to left JP
Final data sheets scanned?		Enter date to left
Buffer Widths measured?	Y <input checked="" type="radio"/> N <input type="radio"/>	NZ 7-6-12
Web Soil Survey	Y <input checked="" type="radio"/> N <input type="radio"/>	TK 7-27-12
Voucher Location	Refrigerator	Y N
(# vouchers collected)	Press (#)	Enter number to left
	Drier	Y N
	Identified	Y <input checked="" type="radio"/> N <input type="radio"/>
	Mounted	Y N
	Thrown away	Y N

GRTS point verification: Is plot sampleable?

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

Additional Comments:



CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

Page 1 of 2
Metroparks
N

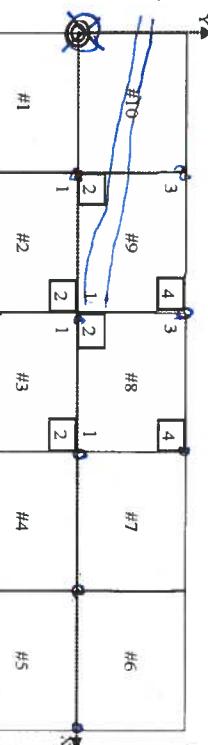
GENERAL INFORMATION		LOCATION																
Project Label:	PCAP																	
Project Name:	OH 12																	
Plot Name:	Call in sick today																	
Plot No.:	1277																	
<input type="checkbox"/> Level 4 (no nested corners sampled) <input checked="" type="checkbox"/> Level 5 (nested corners sampled)																		
Date (mm/dd/yyyy): 8/7/12																		
End date (if > 1 day): / /																		
Party	Role**																	
Z. Barton	Plot leader																	
N. Zimmerman	Bot. Asst.																	
W. Rucker	Wetland/Soil's																	
T. Kistner																		
** Roles: Co-leader, Asst., Guide, Owner, Taxonomist, etc.																		
PLOT NOT SAMPLED: <input type="checkbox"/> Pern water <input type="checkbox"/> Slope <input type="checkbox"/> Safety																		
SAMPLING QUALITY* <input checked="" type="checkbox"/> Very thorough <input type="checkbox"/> Accurate <input type="checkbox"/> Hurried																		
Effort Level: subjective evaluation of how much effort put into sampling. Hurried plots may still provide good data																		
TAXONOMIC ACCURACY <table border="1"> <tr> <td>high</td> <td>modera</td> <td>low</td> <td>not suppl</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td>n/a</td> </tr> <tr> <td>bryo</td> <td></td> <td><input checked="" type="checkbox"/></td> <td></td> </tr> <tr> <td>lichen</td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> </tr> </table>			high	modera	low	not suppl	<input checked="" type="checkbox"/>			n/a	bryo		<input checked="" type="checkbox"/>		lichen			<input checked="" type="checkbox"/>
high	modera	low	not suppl															
<input checked="" type="checkbox"/>			n/a															
bryo		<input checked="" type="checkbox"/>																
lichen			<input checked="" type="checkbox"/>															
Depth: (1-5): 4																		
Intensive modules: 2, 3, 8, 9 (EDIT IF MODIFIED) Camera No.: 4 Photo Nos.: 0223																		
Plot placement: GRTS <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																		
TAXONOMIC STANDARD Authority: G&C Pub Date: 1998																		
Minimum required fields in Bold and Underlined																		

*Definitions and values in CM PCAP FOM v. 1.0 and CVS Field Guide

OVER

Long Sleeve Shirts + Techu!
 Location: Park at Bridle trail parking lot off of Hinckley Hills Road. Walk ~300m east to plot.
 Rationale: GRTS pt.
 Veg char: Heavy duty herb, shrub layer (Aka)
 Catch a little of white pine in residual
 mod to but in residuals so will be ok
 or just leave off 5 and 6 if shows community

Local Place Names: Hinckley Hills Rd.	Landowner: CM
Data Confidentiality: Check one: <input checked="" type="checkbox"/> Public data <input type="checkbox"/> Private Data <input type="checkbox"/> Fuzz 100m <input type="checkbox"/> Fuzz 250m <input type="checkbox"/> Fuzz 500m	
Reason: If data not public why?	
Source of coordinates <input type="checkbox"/> MAP <input checked="" type="checkbox"/> GPS Coordinate system: <input type="checkbox"/> Lat/Long <input type="checkbox"/> UTM <input type="checkbox"/> StatePlane <input checked="" type="checkbox"/> Coord. Units <input type="checkbox"/> deg <input type="checkbox"/> deg min <input type="checkbox"/> Other (specify) <input type="checkbox"/> m <input type="checkbox"/> ft	
Datum: ■ NAD83/WGS84 <input type="checkbox"/> NAD27 GPS location in plot x=0 to 5, y=-1,0,+1: x = <input type="radio"/> 0 y = <input type="radio"/> D (base of plot x=0, y=0)	
Latitude: 41.22204 Longitude: 81.72439 Coord. Accuracy: <input type="checkbox"/> m <input type="checkbox"/> ft +/- 10 GPS File Name: 1277	
Plot size for cover data: 0.1 (hectares) X-axis Bearing of plot: 242°	
Depth: (1-5): 4	
Intensive modules: 2, 3, 8, 9 (EDIT IF MODIFIED) Camera No.: 4 Photo Nos.: 0223	
Plot placement: GRTS <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	



NOTES: Include Layout (any unusual shape details), Location (directions and landscape context), Rationale (why here), and Veg Characterization (description of community, dominants, strata, BROWSE). Additional notes in space on back.

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

Project Label: PCAP

Project Name: OIH: 2012

Glencoe/Munroesville

MODIFIED NATURERESERVE CLASS*

CODE (on separate form):

Fit= 6 Conf= H

Wood

COMMUNITY NAME:

*Atypical Successional
Upland Shrub thicket - other: Rhododendron
Crataegus, Ligustrum,
Rosa, Rubus, Viburnum, Cornus*

HOMOGENEITY

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

DISTURBANCES

type*	severity**	yrs ago	% of plot	description
Human				
Natural				
Fire				
Cut				
Animal	<u>ML</u>	<u>0</u>	<u>100</u>	<u>Browse, deer trail</u>
Other				

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

Current Land Use: Park

Former Land Use: Wk

HYDROLOGIC REGIME*

<input checked="" type="checkbox"/> Upland (seldom flooded)	<input type="checkbox"/> Intermittently flooded
<input type="checkbox"/> Intermittently/seasonally saturated (seldom flooded)	<input type="checkbox"/> Semiintermittently flooded
<input type="checkbox"/> Saltwater	<input type="checkbox"/> Permanently flooded
<input type="checkbox"/> Brackish	<input type="checkbox"/> Tidal/Seiche flooded daily
<input type="checkbox"/> Fresh	<input type="checkbox"/> Tidal/Seiche flooded monthly
<input checked="" type="checkbox"/> Upland (n/a)	<input type="checkbox"/> Tidal/Seiche flooded irregular (e.g. wind, storms)
(by default unless plot is a wetland)	<input type="checkbox"/> Unknown

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

Dense Shrub layer, w/ much toxic poison - bring long sleeves & calipers when sampling.

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

Project Label:

PCAP

Project name: O(Hi2O)

Plot no.: 27

Page 1 of 3

Total modules:

1

Intensive modules: 4 **Plot configuration:** 2x5

Plot area (ha): 6.1



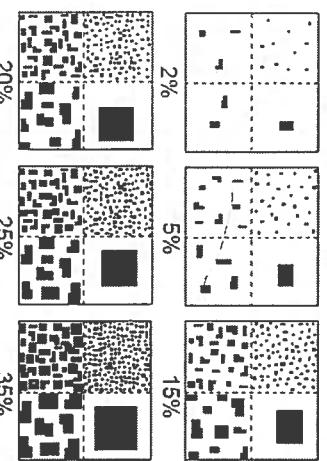
Cleveland
Metroparks

BR = Browse Level. Use cover classes to 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.



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

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

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.

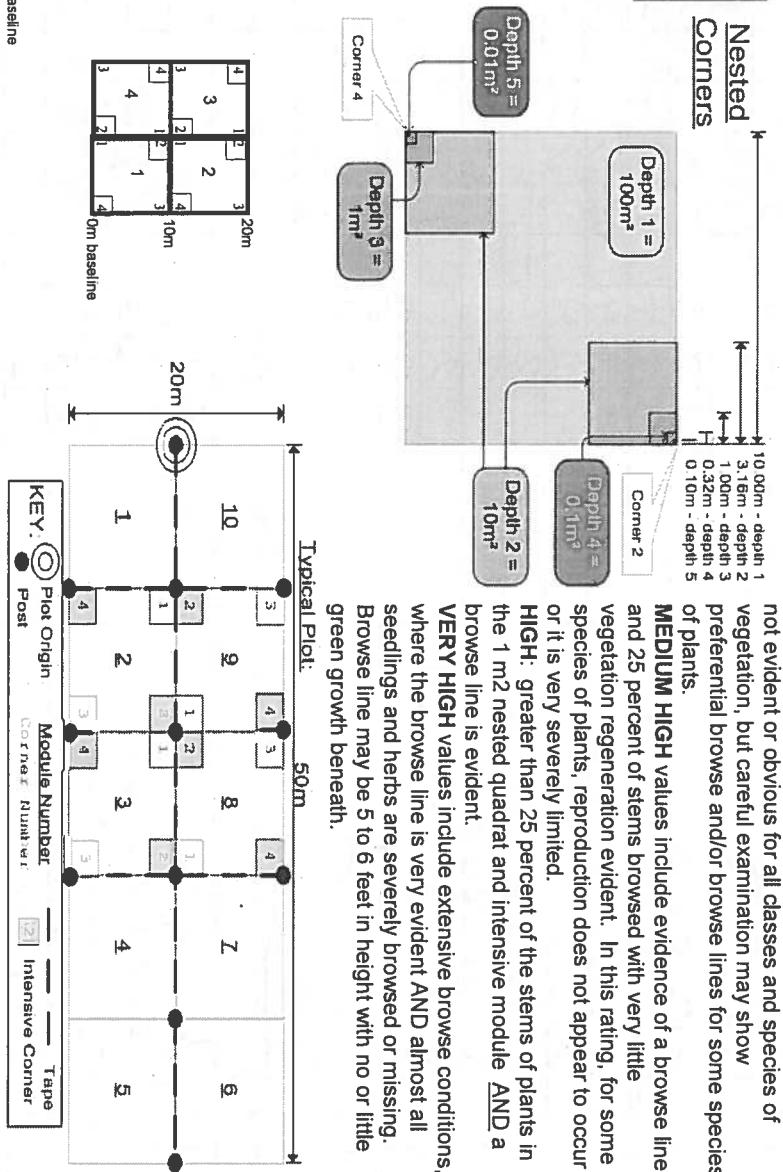
MEDIUM: browse affects greater than 10 percent and less than 25 percent of stems in the 1 m² nested quadrat and intensive module. A browse line is usually

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

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.

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



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

Project Label:

PCAP

Project name: OHi 2012

Page 2 of 3

Total modules:

Intensive modules:

Plot area (ha):

Plot configuration:



**Cleveland
Metroparks**

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

Estimate for each
intensive module:

%open water

%unvegetated open water

%unveg. ground (bare soil)

%unveg. litter (bare litter)

T	S	H	(F)	(A)	Br	Species	C	Veucher #	mod	corner																		
5	2					Rhamnus Frangula		2	5	2	4	3	2	8	4	7	2	9	4	9	2	R	R					
	2					Cirsium heterophyllum			2	2	3																	
	1					Forsythia suspensa			2	1		1		1		1		1		1								
6	2					Rosa multiflora			2	4	2	3	7	4														
	9					Aster lateriflorus			2	3	2																	
	1					Quercus seedlings			2	1																		
	2					Vaccinium corymbosum			2	1																		
	1					Taraxacum officinale			2	1																		
7	2					Acer rubrum			2	7	2																	
	2					Rosa sp.			1	3	2	3																
	2					Liriodendron tulipifera			2	2	3	2	2	1														
	2					Fraxinus Seedlings			1	2	3	2	2	1														
	2					* Carex gracillima ^{gracillima} longii ^{longii}		X	2	3	2	1	5															
	2					Coronis florida			1	2	4	2	2	2	2	2	1	2	2	2	2	2	2	2	2	2		
	1					Solidago sp. (canadensis)			2	3	2	2	1															
	1					Aesculus sp. (D. Podocarpia)		X	8	12	12																	
	1					Prunus seedlings			1	3	2	2	1															
	1					Carex sp. 2			1	1	2	2	1															
	1					Baccharis																						
	1					Panicum																						
	1					Unknown clust 3		14-0224																				
	1					Bromus																						
	1					Clump																						
	1					Scrub																						
	1					W. tree																						
	1																											
	2					Alliaria petiolata																						
	1					Viburnum dentatum																						

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

Project Label: _____ PCAP

Project name: O/Hi 2012

Plot no.: 1277

Page 3 of 3

Total modules:

Intensive modules: _____

Plot area (ha)



Cleveland
Metroparks

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

Estimate for each intensive module:

	depth	cov	depth
ter	1	1	1
á	-	-	-
í	-	-	-

cov	depth	cov	depth
	1		
1			

depth	cov
1	1

depth	cov	depth
1		4

depth	CDR	AGD
	3	13

R R

Silla - COV. Eine plon

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP

Project Name: 01 H 2012

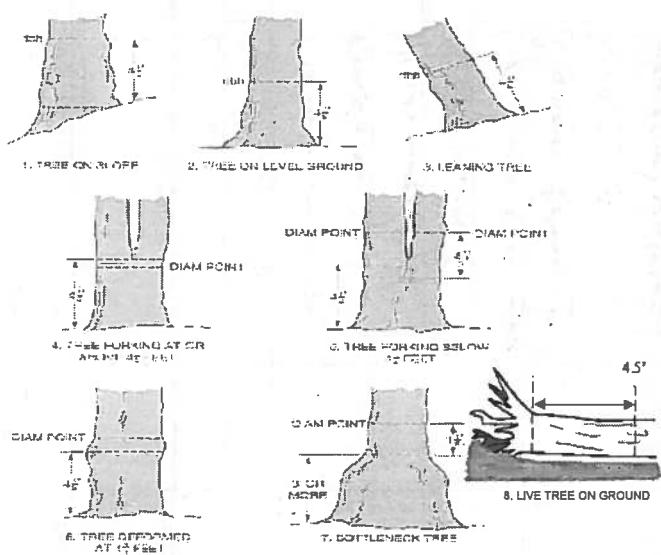
Plot No.: 1277 Page: 1 of 7

Explain subsample (additional room on back):

Dense Conifer & Ligustrum in Mod #2.

mod #	species	c	voucher#	# stems 0-1.4m or super browsed	% sub shrub sample	# clumps	size class (cm) woody stems >1.4m										11 >40 (record each tree)
							1 0-<1	2 1-<2.5	3 2.5-<5	4 5-<10	5 10-<15	6 15-<20	7 20-<25	8 25-<30	9 30-<35	10 35-<40	
✓ 1	Cvitago sp.	c		x													
✓ 2	Staghorn sumac																
✓ 1	Cornus racemosa	i:															
✓ 1	Fraxinus sp.																
✓ 1	Ulmus americana sp.																
✓ 1	Acer rubrum																
✓ 1	Liquidambar styraciflua																
✓ 1	Rhamnus frangula																
✓ 1	Rubus sp. <i>Pennsylvanica</i>																
✓ 1	Ligustrum vulgare																
✓ 1	Rosa multiflora																
✓ 1	Lonicera morrowii																
✓ 1	Fraxinus sp.																
✓ 3	Crataegus sp.																
✓ 2	Standing dead																
✓ 2	Liquidambar styraciflua																
✓ 2	Citronellodendron tulipifera																
✓ 2	Acer rubrum																
✓ 2	Ulmus americana sp.																
✓ 2	Ligustrum vulgare																
✓ 2	Toxicodendron radicans																
✓ 2	Vitis aestivalis																
✓ 2	Vitis Connais racemosa																
✓ 2	Rhamnus frangula																

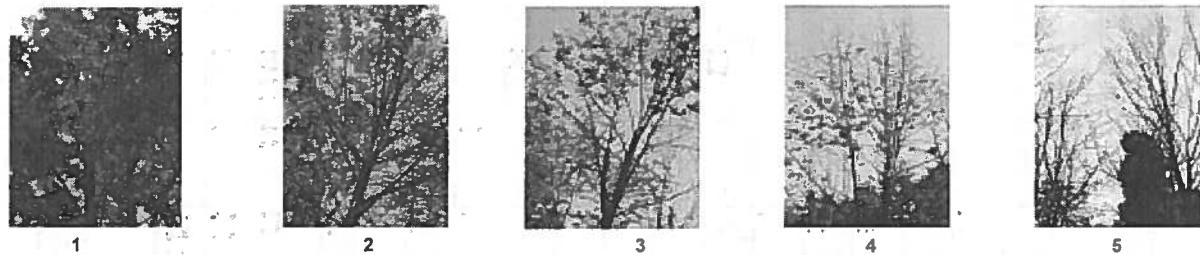
DBH Measurement Rules



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 H; 2012

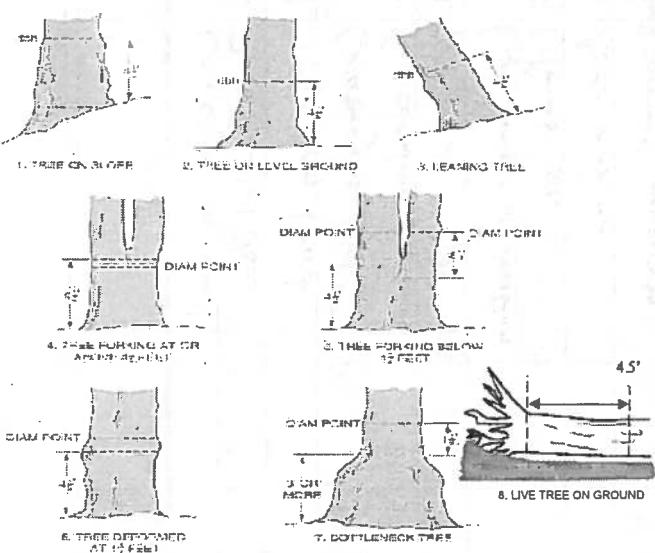
Plot No.: 1277

Page: 2 of 7

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										35 - <40 >40 (record each tree)
							1	2	3	4	5	6	7	8	9	10	
✓ 2	<i>Lonicera morrowii</i>			50%	☒												
✓ 2	<i>Rosa multiflora</i>				;												
✓ 3	Standing dead				;		☒	;									
✓ 3	<i>Crataegus</i> sp.				;		☒	;									
✓ 3	<i>Toxicodendron radicans</i>				;		☒	;									
✓ 3	<i>Fraxinus</i> sp.				;		☒	;									
✓ 3	<i>Kalmia latifolia</i> st. <i>racemosa</i>				;		☒	;									
✓ 3	<i>Ulmus</i> sp.				;		☒	;									
✓ 3	<i>Acer rubrum</i>				;		☒	;									
✓ 3	<i>Comus racemosus</i>				;		☒	;									
✓ 3	<i>Pithecellobium guineense</i>				;		☒	;									
✓ 3	<i>Ostrya virginiana</i>				;		☒	;									
✓ 3	<i>Rosa multiflora</i>				;		☒	;									
✓ 3	<i>Ligustrum vulgare</i>				;		☒	;									
✓ 3	<i>Rubus sp. <i>pensylvanica</i></i>				;		☒	;									
✓ 3	<i>Rhamnus frangula</i>				;		☒	;									
* 2	<i>Rose</i> sp.				;		☒	;									
* 2	<i>Fringilla</i> sp.				;		☒	;									
* 2	<i>Crataegus</i> sp.				;		☒	;									
* 2	<i>Toxicodendron radicans</i>				;		☒	;									
* 2	<i>Ulmus</i> sp.				;		☒	;									
* 2	Standing dead				;		☒	;									
* 2	<i>Rosa</i> sp.				;		☒	;									
* 2	<i>Acer rubrum</i>				;		☒	;									

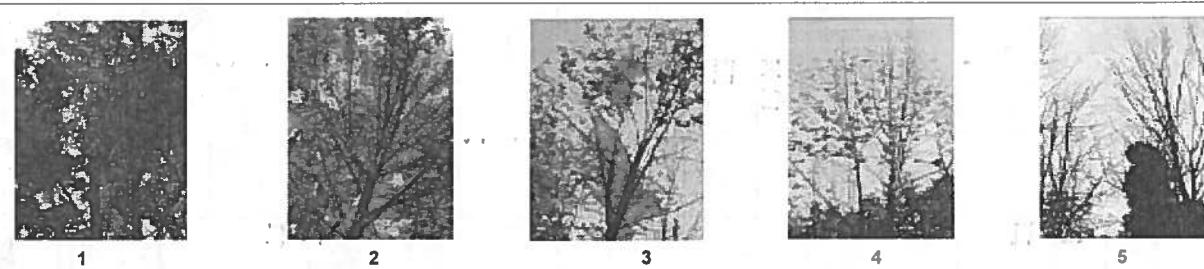
DBH Measurement Rules



Woody Stem Deer Browse

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

Record using the tally system from 1 to 10



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).
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- 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

Explain subsample (additional room on back):

Project Label: PCAP

Project Name: Ø 1 H 2 Ø 12

Plot No.: 1277

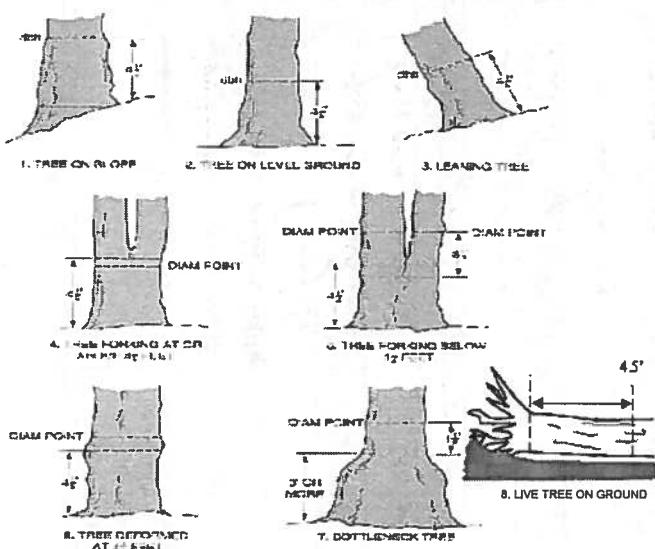
Page: 3

of 7

 Cleveland Metroparks

mod #	species	c	voucher#	# stems 0-1.4m browed	% sub sample	# clumps	size class (cm) woody stems >1.4m											>40 (record each tree)
							1	2	3	4	5	6	7	8	9	10	11	
✓4	Liquidambar styraciflua						•											
✓4	Parthenocissis quinquefolia						•											
✓4	Rhamnus frangula						•											
✓4	Ligustrum vulgare						•											
✓4	Conoclea morrowii						□											
✓2	Rosa sp.						•											
✓4	Cornus nuttallii						•											
✓4	Rubus sp. <i>Pensylvanica</i>						•											
✓4	Rosa multiflora						•											
✓5	Fraxinus sp.						•											
✓5	Cotoneaster sp.						•											
✓5	Standring dead						•											
✓5	Toxicodendron radicans						•											
✓5	Ulmus sp.						•											
✓5	Acer rubrum						•											
✓5	Rosa multiflora						•											
✓5	Rhamnus frangula						•											
✓5	Ligustrum vulgare						•											
✓5	Lindera benzoin						•											
✓5	Rubus sp. <i>pennsylvanicus</i>						•											
✓6	Crataegus sp.						□	□	□	□	□	□	□	□	□	□	□	
✓6	Standring dead						□	□	□	□	□	□	□	□	□	□	□	
✓6	Acer rubrum						•											
✓6	Fraxinus sp.						•	□	□	□	□	□	□	□	□	□	□	

DBH Measurement Rules



Woody Stem Deer Browse

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

Record using the tally system from 1 to 10



1



2



3



4



5

ASH CANOPY CONDITION

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



A

B

C

D

E

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- 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: 1412412 Plot No.: 12772

Page: 4 of 7

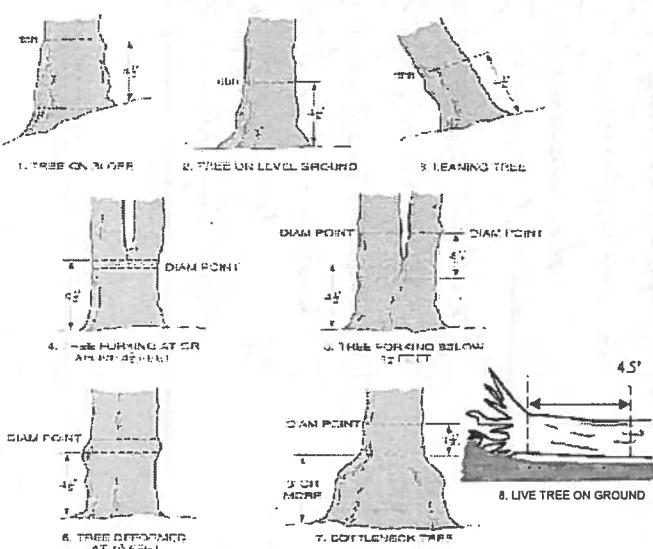
Explain subsample (additional room on back):

mod#	species	c voucher#	# stems 0-1.4m browsed	% sub or super sample	# shrub clumps	size class (cm) woody stems >1.4in	1	2	3	4	5	6	7	8	9	10	11	>40 (record each tree)
✓	Toxicodendron radicans				☒													
✓	Ulmus sp.																	
✓	Rosa multiflora				..													
✓	Lonicera horrida				..													
✓	Rubus occidentalis				..													
✓	Rhamnus frangula				..													
✓	Rubus spp. ^{Pengroptilis}				..													
✓	Fraxinus spp.						☒	☒	☒	
✓	Toxicodendron radicans																	
✓	Standing dead																	
✓	Ulmus sp.						
✓	Cotinus spp.																	
✓	Liquidambar styraciflua																	
✓	Liriodendron tulipifera																	
✓	Conocarpus moroni																	
✓	Rosa multiflora				..		□											
✓	Ligustrum vulgare						..											
✓	Rhamnus frangula						..											
✓	Coronilla racemosa														
✓	Ulmus sp.						..											
✓	Crotonias spp.						..	☒										
✓	Fragaria spp.						
✓	Toxicodendron radicans						
✓	Standing dead						

Completed
from
Field
Survey

see 8-3-12

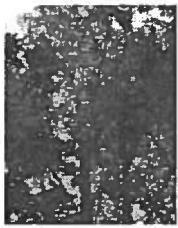
DBH Measurement Rules



Woody Stem Deer Browse

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

Record using the tally system from 1 to 10



1



2



3



4



5

ASH CANOPY CONDITION

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CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP

Project Name: PL 41 2012

Plot No.: 1277

Page: 5 of 7

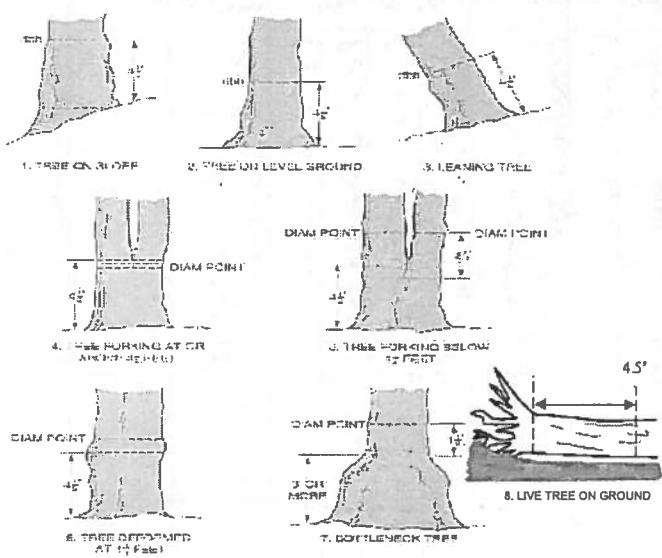


Explain subsample (additional room on back):

mod#	species	c voucher#	# stems 0-1.4m browsed	% sub or super sample	# shrub clumps	size class (cm) woody stems >1.4m										>40 (record each tree)
						1	2	3	4	5	6	7	8	9	10	
✓ 8	<i>Ulmus laevis</i>															
✓ 8	<i>Acer rubrum</i>															
✓ 8	<i>Lonicera morrowii</i>															
✓ 8	<i>Rosa multiflora</i>															
✓ 8	<i>Rubus sp. pennsylvanica</i>															
✓ 8	<i>Ligustrum vulgare</i>															
✓ 8	<i>Prunus pensylvanica</i>															
✓ 9	<i>Fraxinus spp.</i>															
✓ 9	<i>Ulmus sp.</i>															
✓ 9	<i>Acer rubrum</i>															
✓ 9	Standing dead															
✓ 9	<i>Crataegus spp.</i>															
✓ 9	<i>Rhamnus frangula</i>															

SEE
Legend
14-15

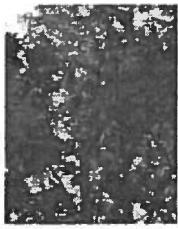
DBH Measurement Rules



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

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CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP

卷之三

Project Name: QHi2012

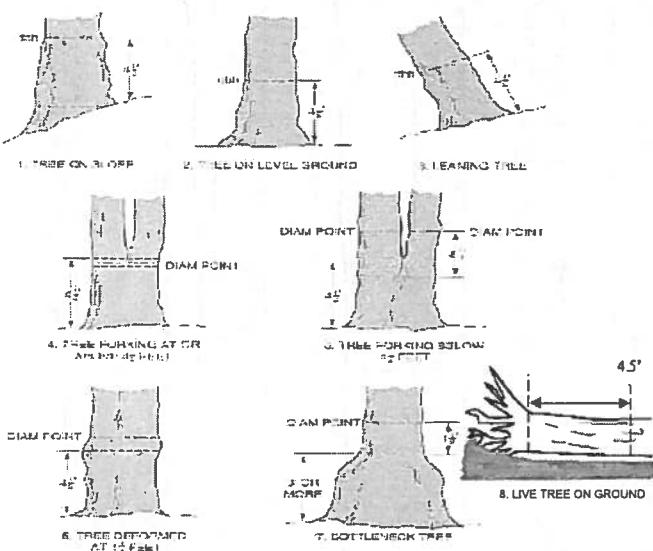
Plot No.: 1277

Page: 6 of 7

 Indian Statistical Institute

Explain subsample (additional Room on back)

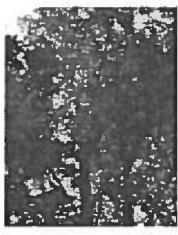
DBH Measurement Rules



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CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP

Project Name: OH 2012

Plot No.: 1277

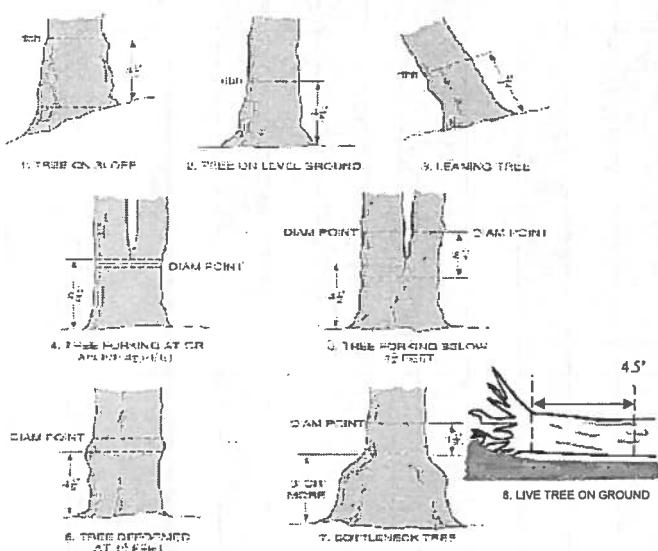
Page: 7 of 2



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	
✓ 10	<i>Fraxinus sp.</i>					•	•	•	•	•	•	•	•	•	•	
✓ 10	<i>Ulmus sp.</i>					•	•	•	•	•	•	•	•	•	•	
✓ 10	<i>Rhamnus frangula</i>				21	•	•	•	•	•	•	•	•	•	•	
✓ 10	<i>Acer rubrum</i>					•	•	•	•	•	•	•	•	•	•	
✓ 10	<i>Robus pensylvanicus</i>					•	•	•	•	•	•	•	•	•	•	
✓ 10	<i>Rosa multiflora</i>		:			•	•	•	•	•	•	•	•	•	•	
✓ 10	Standing dead					•	•	•	•	•	•	•	•	•	•	
✓ 10	<i>Crataegus sp.</i>					•	•	•	•	•	•	•	•	•	•	
✓ 10	<i>Liquidambar styraciflua</i>					•	•	•	•	•	•	•	•	•	•	
✓ 10	<i>Acer saccharum</i>					•	•	•	•	•	•	•	•	•	•	
✓ 10	<i>Liriodendron tulipifera</i>					•	•	•	•	•	•	•	•	•	•	
✓ 10	<i>Lonicera morrowii</i>					•	•	•	•	•	•	•	•	•	•	
✓ 10	<i>Rosa sp.</i>					•	•	•	•	•	•	•	•	•	•	
✓ 10	<i>Ligustrum vulgare</i>					•	•	•	•	•	•	•	•	•	•	
✓ 10	<i>Rosa multiflora</i>					•	•	•	•	•	•	•	•	•	•	
✓ 10	<i>Rhamnus frangula</i>					•	•	•	•	•	•	•	•	•	•	
✓ 10	<i>Comus racemosa</i>					•	•	•	•	•	•	•	•	•	•	
TK	<i>Rubus</i>															
8/22/12																

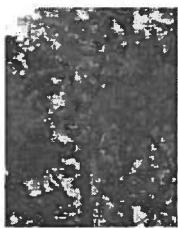
DBH Measurement Rules



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CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey



Tier 1: Early detection/ Rapid response		Presence				GPS
		NE	SE	SW	NW	
Microstegium vimineum	Japanese stiltgrass					
Ranunculus ficaria	Lesser Celandine					
Cynanchum louiseae (vine)	Black Swallow-wort					
Butomus umbellatus (wetland)	Flowering Rush					
Heracleum mantegazzianum	Giant Hogweed					

Presence
X: yes

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

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

Tier 3: Presence is of Interest		# of Plants				comments
		NE	SE	SW	NW	
Convallaria majalis (G-cover)	Lily of the Valley					
Coronilla varia (G-cover)	Crown Vetch					
Eleutherococcus pentaphyllus	Five-leaf Aralia (shrub)					
Pachysandra terminalis (G-cover)	Japanese Pachysandra					
Philadelphus coronarius	Mock Orange (shrub)					
Pulmonaria officinalis (G-cover)	Lungwort					
Rubus phoenicolasius	Wineberry					
Iris pseudacorus (wetland)	Yellow Flag Iris					
Ornithogalum umbellatum	Star of Bethlehem					
Viburnum opulus var. opulus	European Cranberry (shrub)					
Viburnum plicatum	Doublefile Viburnum (shrub)					

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

Tier 4: Widespread and abundant		Presence				comments
		NE	SE	SW	NW	
Alliaria petiolata	Garlic Mustard	2				
Ligustrum vulgare	Common Privet (shrub)	3	2	2	2	
L. morrowii, L. tatarica	Bush Honeysuckles (shrub)	4	2	2	2	
Phalaris arundinacea	Reed Canarygrass					
Phragmites australis (wetland)	Phragmites					
Polygonum cuspidatum	Japanese Knotweed					
Frangula alnus	Glossy Buckthorn (shrub)	3	2			
Rosa multiflora	Multiflora Rose (shrub)	4	2	3	2	
Typha angustifolia, T. x. glauca	Cattails (wetland)					
Cirsium arvense	Canada thistle					
Dipsacus fullonum	Common Teasel					
Hesperis matronalis	Dame's Rocket					
Vinca minor (G-cover)	Periwinkle					

Presence
X: yes

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

CLEVELAND METROPARKS Emerald Ash Borer - *Fraxinus* Sheet

Project Label: PCAP

Project Name: 12/Hi 2012

INTENSIVE MODULES ONLY TREES ≥ 10CM ONLY
Plot No.: 1277 Date: 03/07/2012

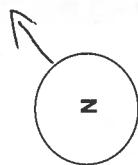
Page: 1 of 2

Module	Tree ID.	Species	Dead c.	Voucher #	DBH (cm)	Ht @ DBH	Ash condition	ASH Only		
								"Dead condition	# Exit holes	Epicormic present
2	1	<i>Fraxinus</i> sp.			23.3	4	Ø	Ø	1	Ø
2	2	<i>Fraxinus</i> sp.			15.2	2	Ø	Ø	Ø	Ø
2	3	<i>Fraxinus</i> sp.			18.4	1	Ø	1	1	1
3	4	<i>Fraxinus</i> sp.			13.9	2	Ø	Ø	Ø	Ø
3	5	<i>Fraxinus</i> sp.			12.2	1	Ø	Ø	Ø	Ø
3	6	<i>Fraxinus</i> sp.			34.0	2	Ø	Ø	Ø	Ø
8	7	<i>Fraxinus</i> sp.			29.8	2	Ø	Ø	Ø	Ø
8	8	<i>Fraxinus</i> sp.			31.4	2	Ø	Ø	Ø	Ø
8	9	<i>Fraxinus</i> sp.			10.5	3	Ø	1	Ø	
8	10	<i>Fraxinus</i> sp.			13.6	2	Ø	Ø	Ø	
8	11	<i>Fraxinus</i> sp.			12.4	1	Ø	Ø	Ø	
8	12	<i>Fraxinus</i> sp.			13.8	3	Ø	Ø	1	
8	13	<i>Fraxinus</i> sp.			12.0	2	Ø	1	Ø	
8	14	<i>Fraxinus</i> sp.			13.7	3	Ø	Ø	Ø	
9	15	<i>Fraxinus</i> sp.			18.9	2	Ø	Ø	Ø	
9	16	<i>Fraxinus</i> sp.			22.3	2	Ø	Ø	Ø	
9	17	<i>Fraxinus</i> sp.			11.8	1	Ø	Ø	Ø	
9	18	<i>Fraxinus</i> sp.			14.0	2	Ø	Ø	Ø	
9	19	<i>Fraxinus</i> sp.			23.4	3	Ø	1	1	
9	20	<i>Fraxinus</i> sp.			12.6	3	Ø	1	Ø	
21										
22										
23										
24										
25										

Baseline

*** Change intensive module numbers when necessary

9	17	15	8	6
17	14	13	11	7
16	13	12	10	5
1	3	2	1	
4				



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

- * If Ash Condition scores 5 (dead) provide breakup score (A-E)
- Count EAB exit holes 1.25m² x ≥ 1.5m
- Woodpecker and epicormic marked present (1) or absent (0)

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

Soil pit module #: 3 (one per entire plot)

5 cm	matrix color	10 YR 4/3
	mottle color	NH4
% mottle	O	
oxid roots	Y	N
texture*	1	
redox features**	Y	N
hydr. cond.***	I S M D	
20 cm	matrix color	10 YR 4/3
	mottle color	AVG
% mottle	O	
oxid roots	Y	N
texture*	1	
redox features**	Y	N
hydro cond. ***	I S M 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)	A
2,3,8,9 composted		
Soil Series/Type: E(B, D) silt loam		
Soil Series/Source: Ohio Soil Survey		
Landform type: Till Plains		
Depth to rest Layer: > 80 inches		
Parent Material: Till		
Disturbance:		
Excessively dr.	<input type="checkbox"/>	Somewhat excessively
Well drained	<input checked="" type="checkbox"/>	Moderately well dr.
Somewhat poorly dr.	<input type="checkbox"/>	Very poorly dr.
Impenetrable surface		

TK 7-27-12

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

Strata	Height (Range (m))	Total Cover (%)
Tree	5 - 8	43
Shrub	0.5 - 5	88
Herb	> 0.5	73
(Floating)*	-	-
(Aquatic)*	-	-

%

STAND SIZE

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

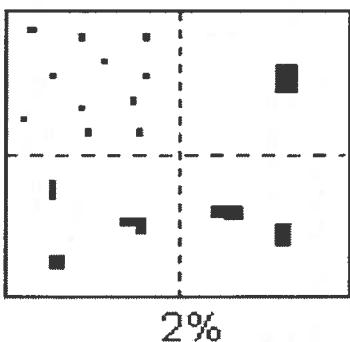
SEE BACK OF PAGE FOR "TYPICAL" STRATA DESCRIPTIONS. STRATA CAN VARY BY COVER TYPE.

0.1 cm in center of intensive modules. If >30.5 cm, record as 30
*** e.g. hydrogen sulfide odor, greying, etc.
** Circle one: I=Inundated S=Saturated M=moist D=dry
Notes: Include evidence of earthworms (worms, castings, middens)
no worms

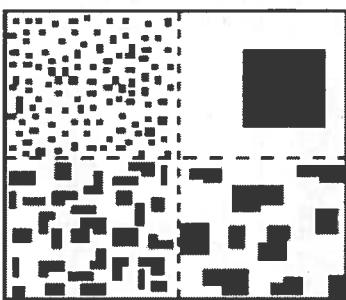
mod#	1 litter+ organic depth (cm)	2 litter depth (cm)	water depth (cm)	depth sat soil (cm)
2	1.8	0	220	
3	1.5	0	230	
8	1.3	0	230	
9	1.4	0	230	

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



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

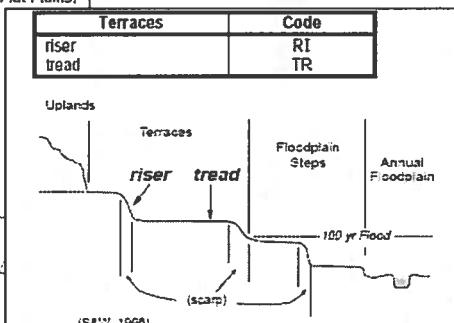
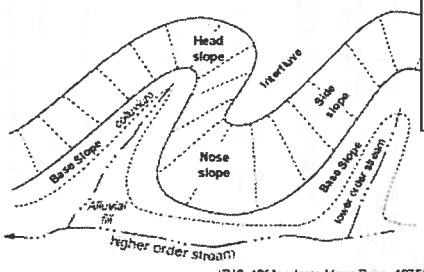
3= Sandy

4= Coarse Sand

9= Not measured - make plot note

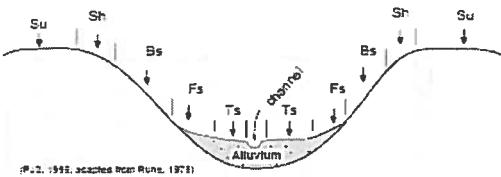
Geomorphic Component - Three-dimensional descriptors of parts of landforms or microfeatures that are best applied to areas. Unique descriptors are available for Hills, Terraces, Mountains, and Flat Plains; e.g., (for Hills) nose slope or NS.

Hills	Code 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.

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

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

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

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.

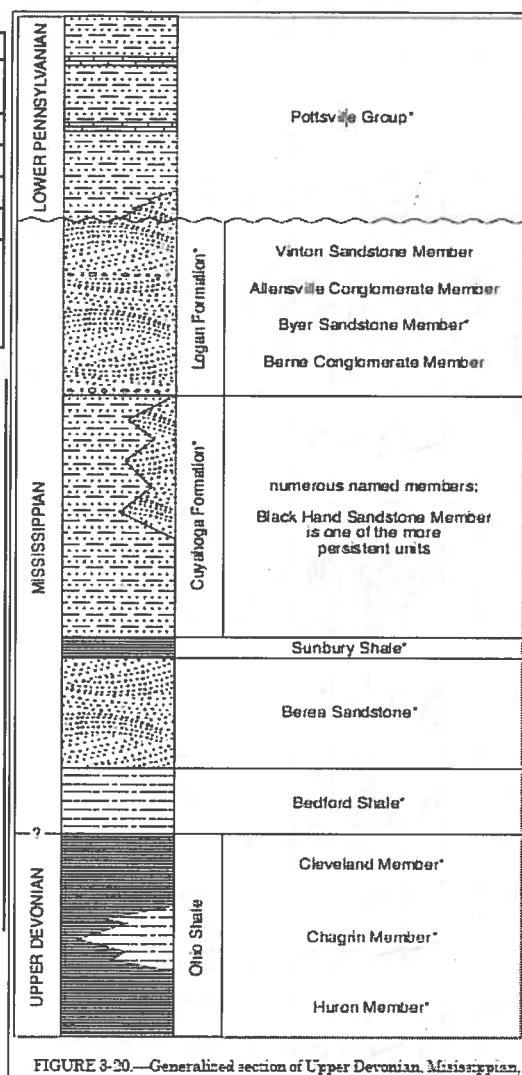
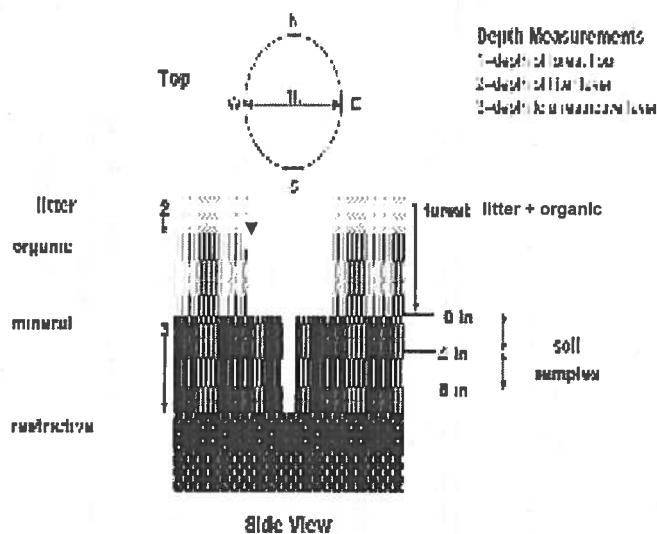


FIGURE 3-20.—Generalized section of Upper Devonian, Mississippian, and Lower Pennsylvanian formations in northeastern Ohio. Asterisks indicate units that are fossiliferous. This composite section represents about 400 meters of rock exposed across the area. The section is not to scale, but the thicknesses 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 Hyda (1953), Hoover (1960), and Collins (1979) for more information on Mississippian rocks in Ohio. See figure 3-13 for explanation of rock types.

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): _____

Site ID: OCAP HI 1277

DATE: 08/07/2012

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

Buffer Natural Cover Strata

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

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

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"/>	<input type="radio"/>	Forest Clear Cut	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Herbicide Use	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Gas Wells	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Forest Selective Cut	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Mowing/Shrub Cutting	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Mine (surface)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Tree Plantation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Trails	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Mine (underground)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Tree Canopy Herbivory (INSECT)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Soil Compaction (ANIMAL OR HUMAN)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Military	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Shrub Layer Browsed (WILD OR DOMESTIC)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Offroad vehicle damage	<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"/>	Highly Grazed Grasses (OVERALL <3" HIGH)	<input type="radio"/>	<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"/>	<input type="radio"/>	
Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Recently Burned Forest Canopy	<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"/>	
Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Recently Burned Grassland (BLACKENED)	<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"/>	

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

2428168304

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

Reviewed by (initial): _____

Site ID: PCAPH1271

DATE: 08/07/2012

• 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 checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Giant Salvinia	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Perennial Pepperweed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Common Buckthorn	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Garlic Mustard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Giant Reed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Himalayan Blackberry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Poison Hemlock	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Cheatgrass	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Tamarisk	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Mile-A-Minute Weed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Reed Canary Grass	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Other:	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Birdsfoot Trefoil	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Common Reed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Other:	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Canada Thistle	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Leafy Spurge	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Other:	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
										Other:	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

PLOT COORDINATES

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

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

Location of coordinates (choose one):

Flag

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

Latitude North 41° 22' 19.0" Longitude West 081° 22' 75.5"

Use Decimal Degrees: NAD83

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): _____

Site ID: PCAP HI 127 7

DATE: 08 / 07 / 2012

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

Buffer Natural Cover Strata

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

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

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

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

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

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

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

2428168304

Iponice
MFK
rammus
ligust
MOTROW

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

Reviewed by (Initial): _____

Site ID: PCAPHiJa77

DATE: 08/07/2012

● 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 checked="" type="radio"/>	<input type="radio"/>		Johnson Grass	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	
Water hyacinth	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Knotweed	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Kudzu	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
Yellow Floating Heart	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Japanese Knotweed	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Multiflora Rose	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Giant Salvinia	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Perennial Pepperweed	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Common Buckthorn	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
Garlic Mustard	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Giant Reed	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Himalayan Blackberry	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
Poison Hemlock	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Cheatgrass	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Tamarisk	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
Mile-A-Minute Weed	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Reed Canary Grass	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Other:	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
Birdsfoot Trefoil	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Common Reed	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Other:	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
Canada Thistle	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Leafy Spurge	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Other:	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
										Other:	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	

PLOT COORDINATES

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

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

Location of coordinates (choose one):

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

Flag

3

Latitude North 41° 22.253'

Longitude West 081° 72.773'

Use Decimal Degrees; NAD83

Flag	Comments
1	falls within plot.
2	could not be sampled because it fell off of park property
3	Taken from the center of plot 3

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): _____

Site ID: PLAP HI 1277

DATE: 08/07/2012

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

Buffer Natural Cover Strata

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

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

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

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

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

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

2428168304

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

Reviewed by (initial): _____

Site ID: PCAP-HI-1277

DATE: 08/07/2013

• 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 checked="" type="radio"/>		Giant Reed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Himalayan Blackberry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Poison Hemlock	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Cheatgrass	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Tamarisk	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Mile-A-Minute Weed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Reed Canary Grass	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Other:	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Birdsfoot Trefoil	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Common Reed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Other:	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Canada Thistle	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Leafy Spurge	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Other:	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
										Other:	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

PLOT COORDINATES

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

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

Location of coordinates (choose one):

Flag

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

Latitude North 41° 22' 19" N

Longitude West 0.8.1.125.3.3

Use Decimal Degrees: NAD83

Buffer Sample Points - Targeted Alien Species 05/27/2011

7966623548

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): _____

Site ID: PCAP HI 1277

DATE: 08/07/2012

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

Buffer Natural Cover Strata

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

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

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

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

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

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

2428168304

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

Reviewed by (Initial): _____

Site ID: PC AP H1 1277

DATE: 09 / 07 / 2012

• 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

Latitude North 41° 22' 07" 38' Longitude West 98° 17' 27" 38'

Use Decimal Degrees: NAD83

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (initial): _____

Site ID: PLAP HI 1277

DATE: 08 / 07 / 2012

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

Buffer Natural Cover Strata

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

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

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

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

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

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

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

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

2428168304

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

Reviewed by (initials):

Site ID: PCAPHI1277

DATE: 08/07/2013

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 checked="" type="radio"/>	<input type="radio"/>		Knotweed	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Kudzu	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	
Yellow Floating Heart	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Japanese Knotweed	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		Multiflora Rose	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input 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 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):

Flag

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

Latitude North 41.22176 Longitude West 081.72882

Use Decimal Degrees; NAD83