

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



Project Label:

PCAP

Plot No: 1298

Date Sampled: 8-14-2012 Lead: Egenbush

Comment required if item answer is NO

Parking/Access outside of Park Boundaries:	Y	N	If yes, write details in Comments section below
Field journals completed	Y	N	
Site sketch made on 1:3000 map?	Y	N	
Check cover page	X-axis Bearing of plot recorded	Y	N
	GPS coords. Recorded	Y	N
	North direction recorded	Y	N
	Photographs taken?	Y	N
Plot No., Date agreement on all pages?	Y	N	
Header data completed all pages?	Y	N	
Cover classes recorded in all Intensive modules	Y	N	
Browse Level By Species	Y	N	
Woody stem quality control check	Y	N	
Invasive plant quality control check	Y	N	
Ash trees mapped	Y	N	
Cover by Strata? (confirm cover type)	Y	N	
Soil samples collected with matching plot #.	Y	N	
Vouchers labeled on datasheet with initials and number	Y	N	N/A
Vouchers labeled on collection bag	Y	N	N/A
Pink flags removed	Y	N	
Data sheet QA before leaving site?	Y	N	
Common equipment returned to tub.	Y	N	
Data sheets scanned?			Enter date to left Se 8/31/12
Final data sheets scanned?			Enter date to left
Buffer Widths measured?	Y	N	N/A 7-6-12
Web Soil Survey	Y	N	TK 8-17-12
Voucher Location	Refrigerator	Y	N
(# vouchers collected)	Press (#)		Enter number to left
	Drier	Y	N
	Identified	Y	N
	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

Golf Course

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Page 1 of 2

GENERAL INFORMATION		LOCATION	
Project Label:	PCAP	State:	OH County: Cuyahoga
Project Name:	<u>URR2012</u>	Quadrangle:	<u>Lakewood</u>
Plot Name:	<u>lots of Little Shady trees</u>	Local Place Names:	<u>Mastick Woods Golf Course</u>
Plot No.:	<u>1298</u>	Landowner:	
End date (if > 1 day):	/ /	Data Confidentiality:	
Party	<input checked="" type="checkbox"/> Level 4 (no nested corners sampled) <input type="checkbox"/> Level 5 (nested corners sampled)	Check one:	<input checked="" type="checkbox"/> Public data <input type="checkbox"/> Private Data
Date (mm/dd/yyyy):	<u>6/14/2012</u>	Fuzz 100m	<input type="checkbox"/>
		Fuzz 250m	<input type="checkbox"/>
		Fuzz 500m	<input type="checkbox"/>
Reason:			
If data not public why?			
Source of coordinates	<input type="checkbox"/> MAP	<input checked="" type="checkbox"/> GPS	
Coordinate system:	<input checked="" type="checkbox"/> Lat/Long	<input type="checkbox"/> UTM	<input type="checkbox"/> StatePlane
	<input checked="" type="checkbox"/> Coord. Units	<input checked="" type="checkbox"/> deg	<input type="checkbox"/> deg min
	<input type="checkbox"/> Other (specify)	<input checked="" type="checkbox"/> m	<input type="checkbox"/> ft
Datum:	<input checked="" type="checkbox"/> NAD83/WGS84 <input type="checkbox"/> NAD27		
GPS location in plot x=0 to 5, y= -1,0,+1):			
x = <u>0</u> y = <u>0</u>	(base of plot x=0, y=0)		
Latitude:	<u>41.43949</u>		
Longitude:	<u>81.84109</u>		
Coord. Accuracy:	<input checked="" type="checkbox"/> m	<input type="checkbox"/> ft	+ 1.4
GPS File Name:	<u>1298A</u>		
Plot size for cover data:	<u>0.1</u>	(hectares)	
X-axis Bearing of plot:	<u>341</u> °		
Depth: (1-5):	<u>4</u>		
Intensive modules: 2, 3, 8, 9	(EDIT IF MODIFIED)		
Camera No.:	<u>2</u>		
Photo No.:	<u>02-2078</u>		
Plot placement:	<u>GRTS</u>		
	<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

Golf Course

Plot origin (0,0) point

GPS location point

photo taken, with direction

location of permanent posts

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

Residential

Layout: 2x5

Location: Park at Mastick Woods Golf

course. Walk approx 180 m

to the NE. Plot is located

on the slope near residential

properties.

Rationale: GRTS pt - original GRTS pt

at (2,0)

Veg Char: Canopy: White Oak, Sugar Maple

Shrub: Sugar Maple

Herb: Garlic Mustard, Sugar Maple, Sugar Seedlings

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

Project Label: PCAP

Project Name: DRRR012

Plot No.: 1298

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Page 2 of 2

MODIFIED NATURE RESERVE CLASS\*  
CODE (on separate form):  
AO1

Fit: Good Confirmed

COMMUNITY NAME:

Dry Oak Forest

HOMOGENEITY

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

## HYDROLOGIC REGIME\*

Upland (seldom flooded)

Intermittently/seasonally saturated (seldom flooded)

Permanently/Semipermanent. saturated (dry <1/yr, seldom flooded)

Occasionally flooded (<1/yr)

Temporarily flooded (e.g. wind, storms)

Unknown

Intermittently flooded

Semipermanently flooded

Permanently flooded

Tidal/Seiche flooded daily

Tidal/Seiche flooded irregular

Unknown

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

Current Land Use: Park

Former Land Use: UNK

DISTURBANCES				
type*	severity**	yrs ago	% of plot	description
Human	H	O	100	Lawn waste, trash
Natural				
Fire				
Cut				
Animal	H	O	100	Deer Browse
Other				

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

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

Plot was located near the top of a ridge on the boundary of the CM property. Top canopy was dominated by White Oak, while the oaks was mostly Sugar Maple w/ an odd one or two tree of Black Cherry or Ash. Shrub layer was mostly Sugar Maple. The herb layer was depauperate w/ Acer, Fraxinus seedlings. There seems to be some encroachment but not sure where exactly the CM property line falls, there is lawn clippings + yard waste in plot w/ possible mowing. Browse was heavy on the Acer seedlings and every woody seedling or saplings.

CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet 2a  
 Project Label: PCAP Project name: OPP2012 Plot no.: 1298 Page 1 of 1

Total modules: 10

Intensive modules: 4 Plot configuration: 2x5

Plot area (ha): 0.1



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

Estimate for each  
intensive module:

mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner
2	4	2	3	4	3	2	3	4	8	2	9	4	9	2	R	R			
depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov
1	0	-	1	0	-	1	0	-	1	0	-	1	0	-					
%unvegetated open water																			
%unveg ground (bare soil)	1	4	-	1	4	-	1	4	-	1	4	-	1	4	-				
%unveg. litter (bare litter)	1	9	-	1	9	-	1	9	-	1	9	-	1	9	-				

Strata - Cov. entire plot

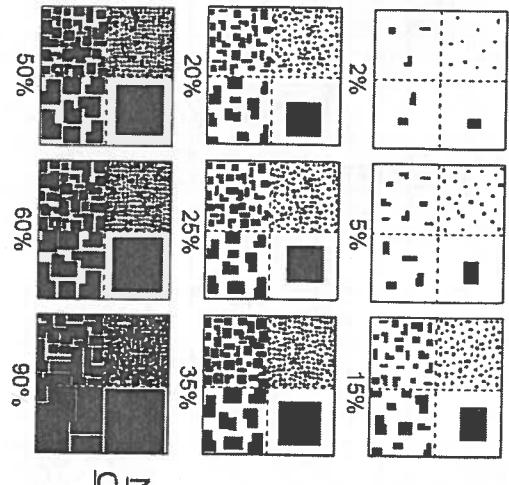
T S H (F) (A) Br Species

C Voucher #

depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov
8	8	9	Acer saccharum			4	9	4	10	4	4	9	4	4	8	4	4	9	4
9	2	Quercus alba				4	8	4	4	9	4	3	9	4	4	9	4	4	9
2	2	Alliaria petiolata				2	2	2	4	2	-1	2	-1	2	2	2	2	2	2
19	2	Acer sp. (seedling)				2	2	3	2	2	3	4	2	-	2	2	2	2	2
3	2	Fraxinus sp. (seedling)				1	1	2	2	2	1	2	-	2	2	2	2	2	2
14	2	Prunus virginiana				1	1	1	1	1	1	1	1	1	1	1	1	1	1
6	2	Prunus pensylvanica				1	5	4	5	4	5	4	5	4	5	4	5	4	5
1	1	Carya sp. (seedling)				1	1	1	1	1	1	1	1	1	1	1	1	1	1
12	1	Bonducera morrowii				1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	2	Parthenocissus quinquefolia				1	2	2	3	2	2	3	2	2	3	2	2	3	2
2	2	Aesculus glabra				1	2	2	3	2	2	3	2	2	3	2	2	3	2
8	2	Fraxinus <del>pen</del> sp. <del>pen</del>				1	2	2	3	2	2	3	2	2	3	2	2	3	2
3	1	Coronis glabra				1	4	3	1	4	3	1	4	3	1	4	3	1	4
5	1	Solidago canadensis				1	4	3	1	4	3	1	4	3	1	4	3	1	4
6	2	Fraxinus americana				1	4	3	1	4	3	1	4	3	1	4	3	1	4
4	2	Allium tricoccum				1	2	2	2	2	2	2	2	2	2	2	2	2	2
4	2	Acer nigrum				1	2	2	2	2	2	2	2	2	2	2	2	2	2
10	2	Liquidambar styraciflua				1	2	2	2	2	2	2	2	2	2	2	2	2	2
1	1	Hedera helix				1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	1	Fagus grandifolia				1	2	2	2	2	2	2	2	2	2	2	2	2	2
43	1	Crataegus sp.				1	2	2	2	2	2	2	2	2	2	2	2	2	2
1	1	Solanum dulcamara				1	2	2	2	2	2	2	2	2	2	2	2	2	2
2	2	Quercus rubra				1	2	2	2	2	2	2	2	2	2	2	2	2	2
3	3	Pinus nigra				1	2	2	2	2	2	2	2	2	2	2	2	2	2

#### EXAMPLES OF PERCENT OF AREA COVERED

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



#### Nested Corners

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

**BROWSE RATING NARRATIVE DESCRIPTION**

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

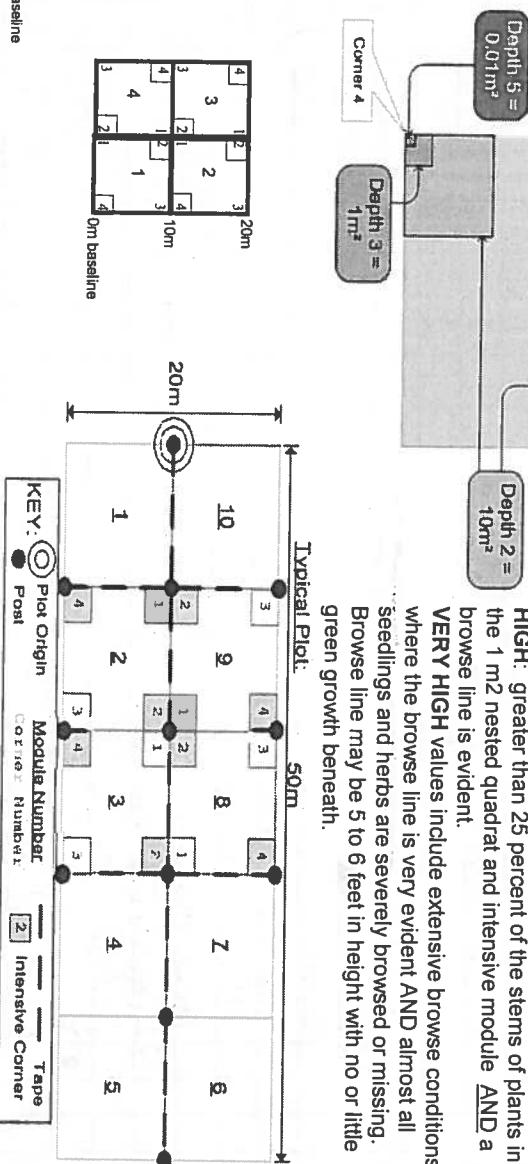
**MEDIUM LOW** values include evidence of browse at about 10 percent of the stems with no significant impact to plant reproduction evident. In this rating, plants are browsed but preferential species are observed to be reproducing in numbers that appear normal or near-normal in comparison to low browse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

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

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

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

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



**CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet**

Project Label: PCAP

Project Name: OIRR 2012

Plot No.: 1248

Page: 1 of 3

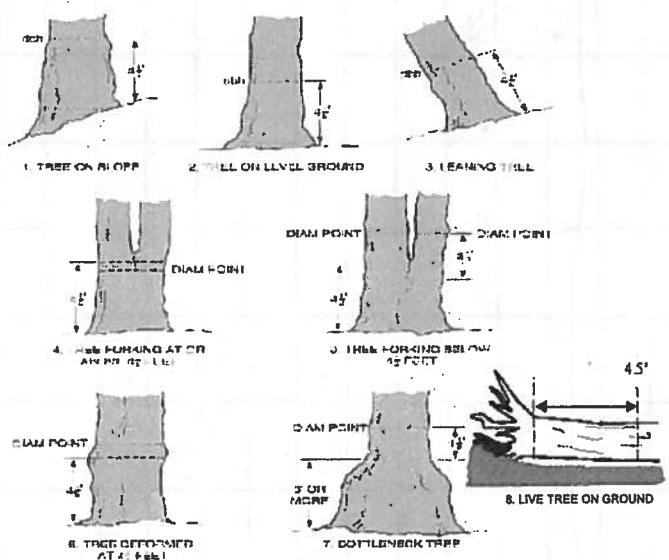
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Explain subsample (additional room on back):

mod #	species	c	voucher#	browsed	# sub shrub clumps	size class (cm) woody stems > 1.4m	# stems 0-1.4m										>40 (record each tree)
							1	2	3	4	5	6	7	8	9	10	
1	<i>Acer saccharum</i>			..	..	..	..	..	..	..	..	..	..	..	..	..	
1	<i>Prunus pensylvanica</i>																
1	Standing dead				..	..	..										
1	<i>Quercus alba</i>																
2	<i>Acer saccharum</i>			XX:			..	..	..	..	..	..	..	..	..	..	
2	Standing dead						..	..	..	..	..	..	..	..	..		
2	<i>Quercus alba</i>																
2	<i>Prunus pensylvanica</i>																
3	Standing dead						..										
3	<i>Acer saccharum</i>						XX:	XX:	XX:	XX:	XX:	XX:	XX:	XX:	XX:	XX:	
3	<i>Quercus alba</i>						..	..	..	..	..	..	..	..	..	..	
3	<i>Cornus florida</i>																
3	<i>Betula papyrifera</i>																
4	<i>Acer saccharum</i>				XX:..		..	..	..	..	..	..	..	..	..	..	
4	<i>Quercus alba</i>			X													
4	<i>Aesculus glabra</i>						..	..									
4	Standing dead						..	..									
4	<i>Cornus florida</i>																
4	<i>Prunus virginiana</i>						..	..									
5	<i>Acer saccharum</i>						XX:..	XX:..	XX:..	XX:..	XX:..	XX:..	XX:..	XX:..	XX:..	XX:..	
5	<i>Acer saccharum</i>						XX:..	XX:..	XX:..	XX:..	XX:..	XX:..	XX:..	XX:..	XX:..	XX:..	
5	<i>Quercus rubra</i>																
5	Standing dead						..	..	..	..	..	..	..	..	..	..	

51.0  
42.8, 44.5

### DBH Measurement Rules



### Woody Stem Deer Browse

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

Record using the tally system from 1 to 10



1



2



3



4



5

### ASH CANOPY CONDITION

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



A



B



C



D



E

### ASH CANOPY BREAKUP CONDITION (for dead trees):

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

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

## CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP

Project Name: OIRR2012

Plot No.: 1298

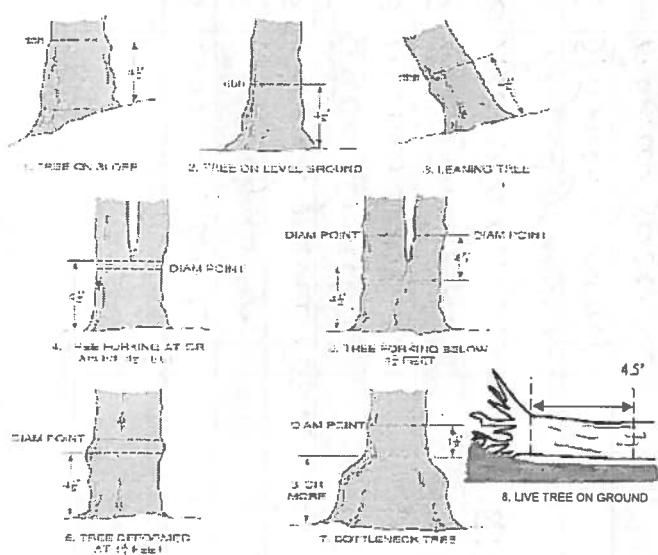
Page: 2 of 5

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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	11	
5	<i>Cornus florida</i>						•											
5	<i>Crataegus sp.</i>																	
5	<i>Fagus grandifolia</i>	..				•	•	•	•									
5	<i>Quercus alba</i>																	
5	<i>Prunus serotina</i>																	
5	<i>Fraxinus sp.</i>																	59.0, 43.0
6	<i>Acer saccharum</i>	2..				2	..	..	..									44.3
6	<i>Fagus grandifolia</i>						•	•	•									
6	Standing dead																	
6	<i>Prunus serotina</i>																	
6	<i>Quercus alba</i>																	42.6
7	<i>Acer saccharum</i>	22				22	11	..	..									48.5
7	<i>Quercus alba</i>																	
7	<i>Fraxinus sp.</i>																	42.8
7	Standing dead						..	•										
7	<i>Acer nigrum</i>																	
7	<i>Prunus serotina</i>																	

#### DBH Measurement Rules



#### Woody Stem Deer Browse

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

Record using the tally system from 1 to 10



1



2



3



4



5

#### ASH CANOPY CONDITION

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



A

B

C

D

E

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

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

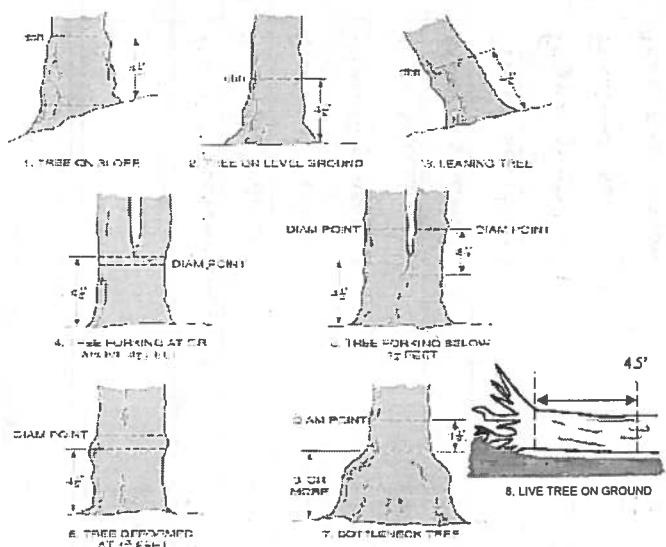
Project Label: PCAP

Project Name: 81KK 2012

Chancery of Mysore

Explain subsample (additional room on back);

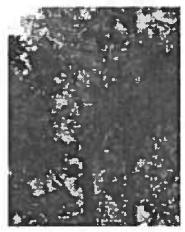
#### DBH Measurement Rules



#### 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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A

B

C

D

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- E: Central stem still standing.

STANDING BIOMASS (required for emergent wetlands) collected in 0.1m<sup>2</sup> plots (32x32 cm) from corners 1 and 3 in each intensive module. Required for VBI-E score calculation. C? = check when collected

Module #	C?	Corner	Corner

## CLASSIFICATION

(IFI = excellent &amp; Fit and Confidence)

## Hydrogeomorphic Class (WETLANDS ONLY):

- DEPRESSION
- IMPOUNDMENT  Beaver  Human
- RIVERINE  Headwater  Mainstem  Channel
- SLOPE (ground water hydrology or a physical slope)
- FRINGING  Reservoir  Natural Lake
- COASTAL (specify subclasse)
- BOG (strongly, moderately, weakly ombrotrophic)

## Ohio EPA VBI Plant Community Class (WETLANDS ONLY):

- FOREST  swamp forest  bog forest  forest steep
- EMERGENT  marsh  wet meadow  open bog
- SHRUB  shrub swamp  tall sh. bog  tall sh. fen

## MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only

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

Slope 1 = slight elevational grade across module (hill)

Slope 2 = fails on slope &gt;20°. Slope 3 = maximum steepness that can be safely sampled ~45°

0 feature is absent or functionally absent from the wetland

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

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

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

c.w.d. - count for pieces with minimum 1m length						
no. of tussocks	no. of hummocks	no. macro. depressions	c.w.d. (2-12 cm)	c.w.d. (12-40cm)	>40 cm interspers.	microhab. microhab.
uplands (Tip-Ups)						
depth 3	depth 2	depth 1	depth 1	depth 1	depth 1	SLOPE
1x1m	3.16x3.16m	10x10m	10x10m	10x10m	10x10m	10x10m
mod#	corner	(count)	(count)	(count)	(count)	(rank)
2	C	0	0	10	8	0
3	C	0	0	9	2	0
6	C	0	0	15	2	0
9	C	0	0	13	3	0

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

## McNAB INDICES (degrees) + for up - for down

[FILLED OUT USING GIS PROGRAM. DO NOT FILL OUT IN FIELD.]

LIFI\* TSI\*\*

At aspect	N	E	W
+45 degrees	NE		
+90 degrees	E		
+135 degrees	SE		
+180 degrees	S		
+225 degrees	SW		
+270 degrees	W		
+315 degrees	NW		

\* Landform Index (position within landscape)

.. Terrain Shape Index (site microtopographic shape)

LIFI is angle of plot to the horizon. TSI is angle formed by local slopes. For angle from recorder's eye to eye of person standing ~10 m away.

Module	N	S	E	W
2	5	4	3	6
3	4	1	2	4
8	2	2	3	2
9	2	1	5	3

CROWN COVER (DENSIMETER) Make 4 readings per module facing N, S, E, W. Place dot count in corresponding space. (4 dots per grid square)

Module	corner	(count)	(count)	(count)	(count)	(rank)
2	C	0	0	10	8	0
3	C	0	0	9	2	0
6	C	0	0	15	2	0
9	C	0	0	13	3	0

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.

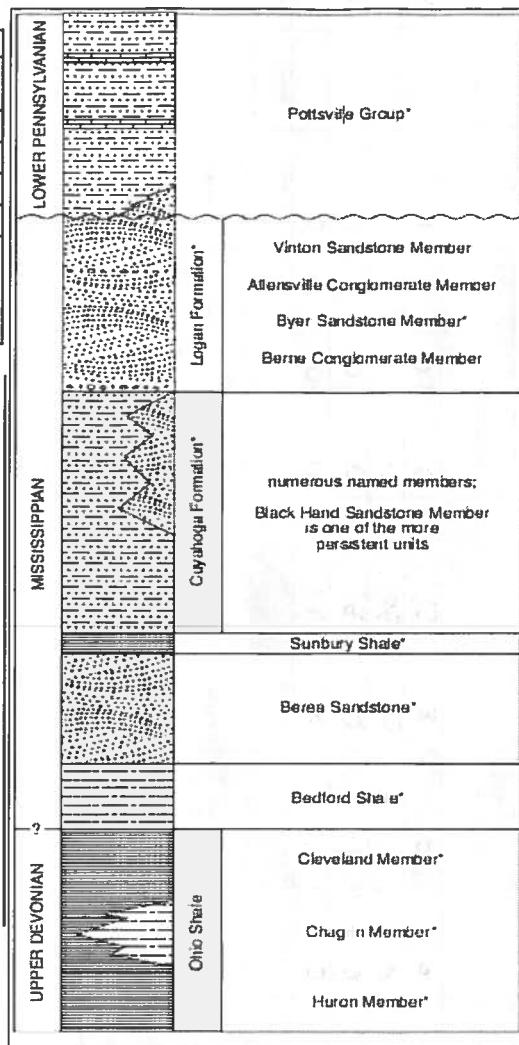
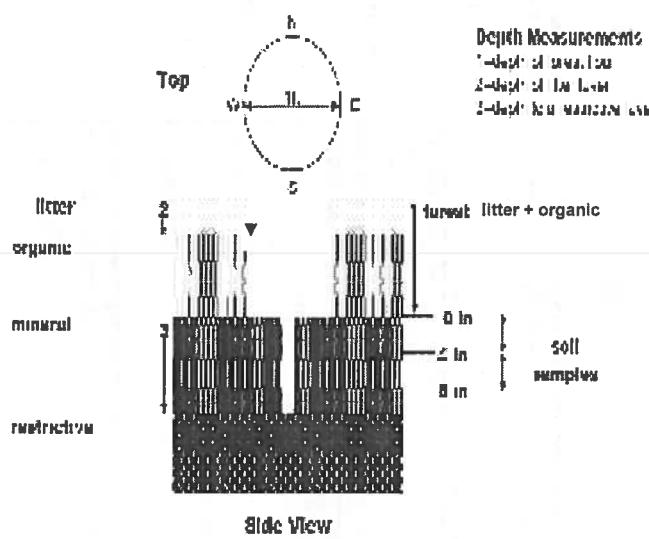


FIGURE 3-20.—Generalized section of Upper Devonian, Mississippian, and Lower Pennsylvanian formations in northeastern Ohio. Asterisks indicate units that are fossiliferous. This composite section represents about 300 meters of rock exposed across the area. The section is not to scale, but the thicknesses indicated are proportional. The term "Waverly" is used in the older literature to refer to Mississippian rocks in Ohio. Some geologists use the European term "Carboniferous" which encompasses the Mississippian and Pennsylvanian Periods of the U.S. Many units have been named within the Cuyahoga Formation, but most units are local and cannot be traced over great distances. The Black Hand Member is a spectacular massive sandstone that is fairly widespread but discontinuous. See Hyda (1953), Hoover (1960), and Collins (1979) for more information on Mississippian rocks in Ohio. See figure 3-13 for explanation of rock types.

<b>SOIL PIT DESCRIPTION:</b> Excavate 20 cm plug with shovel. Describe using Munsell chart, visual exam, texture, and odor.	
Soil pit module # <u>3</u> (one per entire plot)	
5 cm	matrix color <u>10 YR 3/3</u>
moisture	<u>Wet</u> <u>Wet</u>
oxid还原	<u>Y</u> <u>N</u>
texture*	<u>1</u>
redox features**	<u>Y</u> <u>0</u>
hyd. cond.***	<u>1</u> <u>S</u> <u>M</u> <u>0</u>
20 cm	matrix color <u>10 YR 5/4</u>
moisture	<u>Wet</u> <u>Wet</u>
%moist	<u>0</u>
oxid还原	<u>Y</u> <u>N</u>
texture*	<u>2</u>
redox features**	<u>Y</u> <u>0</u>
hyd. cond.***	<u>1</u> <u>S</u> <u>M</u> <u>0</u>

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

Soil Collection Module (Horizon A, B, C)	
2,3,8,9 composted	A
Soil Series/Type: <u>Bone, Brecksville Silt loam</u>	
Soil Series Source: Ohio Soil Survey	
Landform type: <u>Drenage - 4YS</u>	
Depth to rest. Layer: <u>20-40 inches</u>	
Parent Material: <u>Residuum from shale</u>	
Underlying Earth Surface*	
Excessively dr.	<input type="checkbox"/>
Well drained	<input type="checkbox"/>
Somewhat poorly dr.	<input type="checkbox"/>
Very poorly dr.	<input type="checkbox"/>
Impenetrable surface	<input type="checkbox"/>

TK 8-17-12

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

Strata	Height Range (in)	Total Cover (%)
Tree	<u>2-5</u>	<u>23</u>
Shrub	<u>.5-.5</u>	<u>63</u>
Herb	<u>&lt;.5</u>	<u>3</u>

*No herbs*

**STAND SIZE**

- > 600 x plot size
- > 100 x plot size
- 10-100 x plot size
- 3-10 x plot size
- 1-3 x plot size
- < plot size

Soil Depth Measurement: Measure to the nearest 0.1 cm in center of intensive modules. If >30.5 cm, record as >30			
1 litter+ organic depth (cm)	2 litter depth (cm)	water depth (cm)	depth sat (cm)
<u>2</u>	<u>3.2</u>	<u>3.2</u>	<u>0</u>
			<u>730</u>
<u>3</u>	<u>2.7</u>	<u>2.7</u>	<u>0</u>
			<u>730</u>
<u>4</u>	<u>1.9</u>	<u>0</u>	<u>730</u>
<u>5</u>	<u>2.4</u>	<u>2.4</u>	<u>0</u>
			<u>730</u>

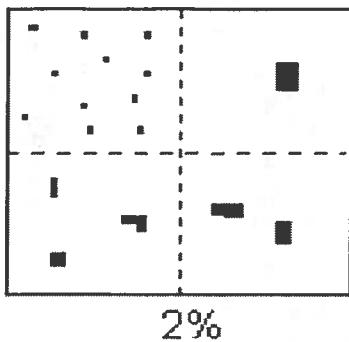
\*rooted and floating or slightly emersed

\*\* submersed, most plant mass below surface

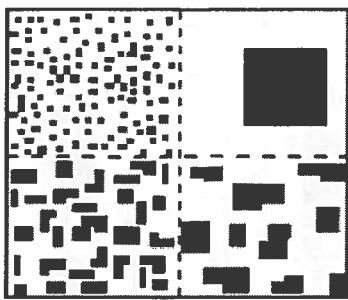
SEE BACK OF PAGE FOR 'TYPICAL' STRATA DESCRIPTIONS. STRATA CAN VARY BY COVER TYPE.

### PERCENT MOTTLES (USE CLASS CODES):

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



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

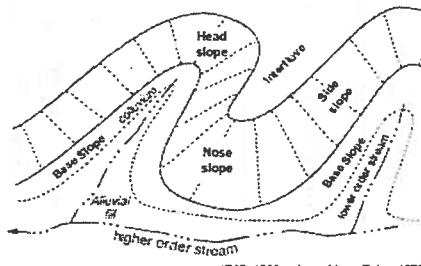
3= Sandy

4= Coarse Sand

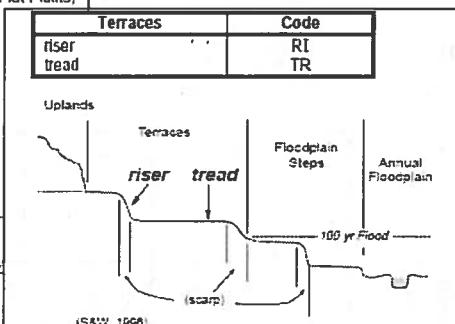
9= Not measured - make plot note

**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

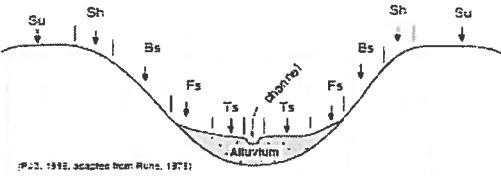


(PJS, 1995; adapted from Ruhe, 1975)



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

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



(PJS, 1995; adapted from Ruhe, 1975)

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

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

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

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

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

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

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

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

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

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

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

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

Presence

X: yes

# of Plants

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

# of Plants

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

Presence

X: yes

CLEVELAND METROPARKS Emerald Ash Borer - *Fraxinus* Sheet

Project Label: PCAP

Project Name: D1RR2012

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

Plot No.: 1298

Date: 01/14/12

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
8	1	<i>Fraxinus americana</i>			51.2	-	-	0	0	0
	2									
	3									
	4									
	5									
	6									
	7									
	8									
	9									
	10									
	11									
	12									
	13									
	14									
	15									
	16									
	17									
	18									
	19									
	20									
	21									
	22									
	23									
	24									
	25									

Baseline

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

9

8

2

3

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

\* If Ash Condition scores 5 (dead) provide breakup score (A-E)

Count EAB exit holes  $1.25\text{mm} \geq x \geq 1.5\text{mm}$ 

Woodpecker and epicormic marked present (1) or absent (0)

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

Reviewed by (initial): \_\_\_\_\_

Site ID: PCA PRR 1298

DATE: 08 / 14 / 2011

Location:

OAA Center O N O S O E O W

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

O Plot 1 O Plot 2 O Plot 3

## Buffer Natural Cover Strata

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

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

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

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

Residential and Urban Stressors				Hydrology Stressors				Agricultural & Rural Stressors							
Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	
Road - gravel	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<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 (REOINT-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/Soil 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 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 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 OR 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.

24281683

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

1920-1921

**Site ID:** PCAPRR1298

DATE: 08/11/4/2012

Confrm a filled data bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble.

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

### 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 assessed, 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  NB  SG  OE  WG  Nearest practicable location (flag and comment below)

Latitude North 41°43'9.5S

### Longitude West

881 84226

Use Decimal Degrees: NAD83

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

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

Site ID: PCKAPPK1298

DATE: 08 / 14 / 2011

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

## Buffer Natural Cover Strata

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

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

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

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

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

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

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

1960-1961

Site 10c PC-APR-R-1298

DATE: 08/14/2012

• 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"/>		Almond	<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"/>	

### PILOT 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. If in the "nearest practicable location" bubble, fill in the 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 (checkboxes)

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

7

Latitude North 5 1 9 3 9 7 0

Longitude West 81 84093

Use Decimal Degrees: NAD83

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

Reviewed by (initial): \_\_\_\_\_

Site ID: PCAPRK1298

DATE: 08/14/2011

Location:

O AA Center O N O S O E O W

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

O Plot 1 O Plot 2 O Plot 3

## Buffer Natural Cover Strata

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

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

Buffer Plot 1	Canopy Type: D 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"/>	1	<input checked="" type="radio"/>	<input checked="" type="radio"/>	3	<input checked="" type="radio"/>	<input checked="" type="radio"/>	Big Trees (>0.3m DBH)	<input checked="" type="radio"/>	1	<input checked="" type="radio"/>
Small Trees (<0.3m DBH)	<input checked="" type="radio"/>	1	<input checked="" type="radio"/>	2	<input checked="" type="radio"/>	4	<input checked="" type="radio"/>	Small Trees (<0.3m DBH)	<input checked="" type="radio"/>	1	<input checked="" type="radio"/>
Woody Shrubs, Saplings (0.5m-5m HIGH)	<input checked="" type="radio"/>	1	<input checked="" type="radio"/>	2	<input checked="" type="radio"/>	3	<input checked="" type="radio"/>	Woody Shrubs, Saplings (0.5m-5m HIGH)	<input checked="" type="radio"/>	1	<input checked="" type="radio"/>
Woody Shrubs, Saplings (<0.5m HIGH)	<input checked="" type="radio"/>	1	<input checked="" type="radio"/>	2	<input checked="" type="radio"/>	3	<input checked="" type="radio"/>	Woody Shrubs, Saplings (<0.5m HIGH)	<input checked="" type="radio"/>	1	<input checked="" type="radio"/>
Herbs, Forbs and Grasses	<input checked="" type="radio"/>	1	<input checked="" type="radio"/>	2	<input checked="" type="radio"/>	3	<input checked="" type="radio"/>	Herbs, Forbs and Grasses	<input checked="" type="radio"/>	1	<input checked="" type="radio"/>
Bare ground	<input checked="" type="radio"/>	1	<input checked="" type="radio"/>	2	<input checked="" type="radio"/>	3	<input checked="" type="radio"/>	Bare ground	<input checked="" type="radio"/>	1	<input checked="" type="radio"/>
Litter, duff	<input checked="" type="radio"/>	1	<input checked="" type="radio"/>	2	<input checked="" type="radio"/>	3	<input checked="" type="radio"/>	Litter, duff	<input checked="" type="radio"/>	1	<input checked="" type="radio"/>
Rock	<input checked="" type="radio"/>	1	<input checked="" type="radio"/>	2	<input checked="" type="radio"/>	3	<input checked="" type="radio"/>	Rock	<input checked="" type="radio"/>	1	<input checked="" type="radio"/>
Water	<input checked="" type="radio"/>	1	<input checked="" type="radio"/>	2	<input checked="" type="radio"/>	3	<input checked="" type="radio"/>	Water	<input checked="" type="radio"/>	1	<input checked="" type="radio"/>
Submerged Vegetation	<input checked="" type="radio"/>	1	<input checked="" type="radio"/>	2	<input checked="" type="radio"/>	3	<input checked="" type="radio"/>	Submerged Vegetation	<input checked="" type="radio"/>	1	<input checked="" 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 checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		Ditches, Channelization	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		Pasture/Hay	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		
Road - two lane	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		Dike/Dam/Road/RR Bed (IMPEDE FLOW)	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		Range	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		
Road - four lane	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		Water Level Control Structure	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		Row Crops	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		
Parking Lot/Pavement	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		Excavation, Dredging	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		Fallow Field (RECENT RESTING ROW CROP FIELD)	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		
Golf Course	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		Fill/Soil Banks	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		Fallow Field (OLD - GRASS, SHRUBS, TREES)	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		
Lawn/Park	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		Freshly Deposited Sediment (UNVEGETATED)	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		Nursery	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		
Suburban Residential	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		Soil Loss/Root Exposure	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		Dairy	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		
Urban/Multifamily	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		Wall/Riprap	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		Orchard	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		
Landfill	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		Inlets, Outlets	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		Confined Animal Feedin	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		
Dumping	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		Point Source/Pipe EFFLUENT OR STORMWATER	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		Rural Residential	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		
Trash	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		Impervious surface input (SHEET FLOW)	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		Gravel Pit	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		
Other: <i>Airsoft course</i>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	Other: _____	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		Irrigation	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		
Other: _____	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		Other: _____	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		Other: _____	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" 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 checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		Forest Clear Cut	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		Herbicide Use	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		
Gas Wells	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		Forest Selective Cut	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		Mowing/Shrub Cutting	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		
Mine (surface)	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		Tree Plantation	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		Trails	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		
Mine (underground)	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		Tree Canopy Herbivory (INSECT)	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		Soil Compaction ANIMAL OR HUMAN	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		
Military	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		Shrub Layer Browsed (WILD OR DOMESTIC)	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		Offroad vehicle damage	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		
Other: _____	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		Highly Grazed Grasses (OVERALL > 3 HIGH)	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		Soil erosion (FRONT WIND WATER OR OVERUSE)	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		
Other: _____	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		Recently Burned Forest Canopy	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		Other: _____	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		
Other: _____	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		Recently Burned Grassland (BLACKENED)	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		Other: _____	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>		

Flag codes: X = 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.

12428168304

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

1960-1961

**Site ID:** PCAPRR1298

DATE: 08/14/2013

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

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

### 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 Plot 1's are centered on the Buffer Transects and the coordinates will indicate the location of the transect. If to the "nearest practicable location" bundle, 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):**

2022.7.14

AA CENTER    ON<sub>3</sub>    CS<sub>3</sub>    EF<sub>3</sub>    W<sub>3</sub>    Nearest practicable location (flag and comment below)

Latitude North 41 43 85 9

### Longitude West

81 84059

Use Decimal Degrees: NAD83

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

Reviewed by (initial): \_\_\_\_\_

Site ID: PCAP RR 1298

DATE: 08/14/2011

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

## Buffer Natural Cover Strata

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

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

Buffer Plot 1	Canopy Type: <input checked="" type="radio"/> D <input type="radio"/> E		Absent: <input type="radio"/>	Buffer Plot 2	Canopy Type: <input checked="" type="radio"/> D <input type="radio"/> E		Absent: <input type="radio"/>	Buffer Plot 3	Canopy Type: <input checked="" type="radio"/> D <input type="radio"/> E		Absent: <input type="radio"/>
	Leaf Type: <input checked="" type="radio"/> B <input type="radio"/> N	Flag: <input type="radio"/>			Leaf Type: <input checked="" type="radio"/> B <input type="radio"/> N	Flag: <input type="radio"/>			Leaf Type: <input checked="" type="radio"/> B <input type="radio"/> N	Flag: <input type="radio"/>	
Big Trees (>0.3m DBH)	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	Big Trees (>0.3m DBH)	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	Big Trees (>0.3m DBH)	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>
Small Trees (<0.3m DBH)	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	Small Trees (<0.3m DBH)	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	Small Trees (<0.3m DBH)	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>
Woody Shrubs, Saplings (0.5m-5m HIGH)	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	Woody Shrubs, Saplings (0.5m-5m HIGH)	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	Woody Shrubs, Saplings (0.5m-5m HIGH)	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>
Woody Shrubs, Saplings (<0.5m HIGH)	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	Woody Shrubs, Saplings (<0.5m HIGH)	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	Woody Shrubs, Saplings (<0.5m HIGH)	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>
Herbs, Forbs and Grasses	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	Herbs, Forbs and Grasses	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	Herbs, Forbs and Grasses	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>
Bare ground	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	Bare ground	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	Bare ground	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>
Litter, duff	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	Litter, duff	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	Litter, duff	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>
Rock	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	Rock	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	Rock	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>
Water	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	Water	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	Water	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>
Submerged Vegetation	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	Submerged Vegetation	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	Submerged Vegetation	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	<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"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Ditches, Channelization	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Pasture/Hay	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Road - two lane	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Dike/Dam/Road/RR Bed (IMPEDE FLOW)	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Range	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Road - four lane	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Water Level Control Structure	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Row Crops	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Parking Lot/Pavement	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Excavation, Dredging	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Fallow Field (REDENT/RESTING ROW CROP FIELD)	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Golf Course	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Fill/Soil Banks	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Fallow Field (OLD - GRASS, SHRUBS, TREES)	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lawn/Park	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Freshly Deposited Sediment (UNVEGETATED)	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Nursery	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Suburban Residential	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Soil Loss/Root Exposure	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Dairy	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Urban/Multifamily	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Wall/Riprap	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Orchard	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Landfill	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Inlets, Outlets	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Confined Animal Feeding	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Dumping	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Point Source/Pipe (EFUENT OR STORMWATER)	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Rural Residential	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Trash	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Impervious surface input (SHEET FLOW)	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Gravel Pit	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other: _____	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Other: _____	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Irrigation	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other: _____	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Other: _____	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Other: _____	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<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"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Forest Clear Cut	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Herbicide Use	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Gas Wells	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Forest Selective Cut	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Mowing/Shrub Cutting	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mine (surface)	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Tree Plantation	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Trails	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mine (underground)	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Tree Canopy Herbivory (INSECT)	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Soil Compaction (ANIMAL OR HUMAN)	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Military	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Shrub Layer Browsed (WILD OR DOMESTIC)	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Off-road vehicle damage	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other: _____	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Highly Grazed Grasses (OVERALL 3" HIGH)	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Soil erosion (FROM WIND, WATER, OR OVERUSE)	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other: _____	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Recently Burned Forest Canopy	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Other: _____	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other: _____	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Recently Burned Grassland (BLACKENED)	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Other: _____	<input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3	<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)**

1990-1991

Site ID: PCAP RR1298

DATE 08/14/2012

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

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

**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 5 1 2 4 4 8 5 8

Longitude West 30 1 80 4 1 1 5

Use Decimal Degrees—NAD83

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

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

Site ID: FCAP R1298

DATE: 08/14/2012

Location: AA Center ON OS OE OW					Fill in bubble(s) if plot(s) could not be sampled and flag →				
					Plot 1		Plot 2		Plot 3

## Buffer Natural Cover Strata

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

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

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

Residential and Urban Stressors				Hydrology Stressors				Agricultural & Rural Stressors							
Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	
Road - gravel	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<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/Soil 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"/>	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 (SHEET FLOW)	<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"/>	migration	<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 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 type="radio"/>	<input type="radio"/>	<input type="radio"/>	Off-road 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 DRYING)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Soil erosion (FROM TWIN 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 fieldcrew.

2428168304

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

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

1900-1901

**Site ID:** PCAPRR1298

DATE: 08/14/2012

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

F11 bubble if present - Plot	1	2	3	Flag	F11 bubble if present - Plot	1	2	3	Flag	F11 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"/>		Pennant 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"/>		Tamariisk	<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"/>	
Birdfoot 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"/>	

### **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 assessed, 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

Q AA CENTER Q NG Q SS Q E3 Q WS Q Nearest practicable location (flag and comment below)

Latitude North 41 43 9 6 4

## Longitude West

#### Use Decimal Degrees—NAD83

Buffer Sample Points - Target alien species 05/27/2011

7966623548

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

Project Label: PCAP Plot No: \_\_\_\_\_ Date Sampled: \_\_\_\_\_ Lead: \_\_\_\_\_

Comment required if item answer is NO

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

## GRTS point verification: Is plot sampleable?

<input 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	

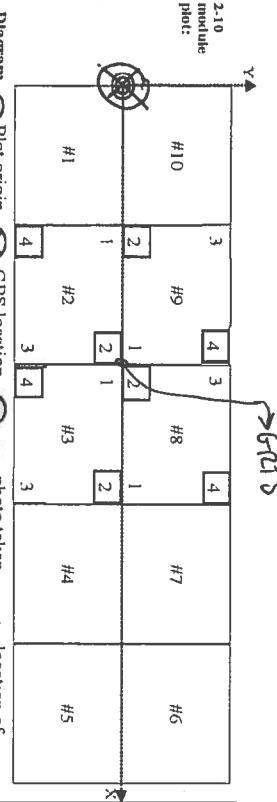
## Additional Comments:

There is a firepit in mod 2 with logs in a log holder and a bench. There are several possible encroachments near/within the plot, including dumpings.

D

C

# CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

<b>GENERAL INFORMATION</b>		<b>LOCATION</b>																
<b>Project Label:</b> PCAP		<b>State:</b> OH <b>County:</b>																
<b>Project Name:</b>		<b>Quadrangle:</b>																
<b>Plot Name:</b>		<b>Local Place Names:</b>																
<b>Plot No.:</b>		<b>Landowner:</b>																
<input type="checkbox"/> Level 4 (no nested corners sampled) <input checked="" type="checkbox"/> Level 5 (nested corners sampled)																		
<b>Date (mm/dd/yyyy):</b> / /																		
<b>End date (if &gt; 1 day):</b> / /																		
<b>Party</b>		<b>Reason:</b>																
		If data not public why?																
		<b>Source of coordinates:</b> <input type="checkbox"/> MAP <input checked="" type="checkbox"/> GPS																
		<b>Coordinate system:</b> <input checked="" type="checkbox"/> Lat/Long <input type="checkbox"/> UTM <input type="checkbox"/> StatePlane <input checked="" type="checkbox"/> deg <input type="checkbox"/> deg min <input type="checkbox"/> Other (specify) <input type="checkbox"/> m <input type="checkbox"/> ft <input type="checkbox"/> in																
		<b>Datum:</b> <input checked="" type="checkbox"/> NAD83/WGS84 <input type="checkbox"/> NAD27																
GPS location in plot x=0 to 5, y=-1,0,+1): $x = 0$ $y = 0$ (base of plot x=0, y=0)																		
<b>PLOT NOT SAMPLED:</b> <input type="checkbox"/> Other <input type="checkbox"/> Perm. water <input type="checkbox"/> Paved <input type="checkbox"/> Slope <input type="checkbox"/> Safety																		
<b>SAMPLING QUALITY*</b>																		
<b>Effort Level:</b> <input type="checkbox"/> Very thorough <input type="checkbox"/> Accurate <input type="checkbox"/> Hurried																		
<b>TAXONOMIC ACCURACY</b> <table border="1"> <tr> <td>high</td> <td>modera.</td> <td>low</td> <td>not supp</td> </tr> <tr> <td>vascul.</td> <td></td> <td></td> <td>n/a</td> </tr> <tr> <td>bryo</td> <td></td> <td></td> <td></td> </tr> <tr> <td>lichen</td> <td></td> <td></td> <td></td> </tr> </table>			high	modera.	low	not supp	vascul.			n/a	bryo				lichen			
high	modera.	low	not supp															
vascul.			n/a															
bryo																		
lichen																		
<b>TAXONOMIC STANDARD</b> <b>Authority:</b> G&C <b>Pub Date:</b> 1998																		
Minimum required fields in Bold and Underlined *Definitions and values in CM PCAP FOM v. 1.0 and CVS Field Guide																		
																		
<p><b>NOTES:</b> Include Layout (any unusual shape details), Location (directions and landscape content), Rationale (why here), and Veg Characterization (description of community, dominants, strata, BROWSE). Additional notes in space on back.</p> <p><b>LOCATION:</b> <u>2 x 5 on a ~30° slope</u> <u>NE of parking lot off parkas</u></p> <p><b>PLOT:</b> <u>~150m NE of parking lot</u></p> <p><b>RATIONALE:</b> GRTS at (2,0). Origin shifted 20m SW at baseline secondary to 4 in community NE (Pine forest)</p> <p><b>VEG CHARACTERISTICS:</b> Tree layer dominated by <i>Acacia saccharum</i>, <i>Quercus alba</i>, <i>Prunus serotina</i>. Herb layer depauperate.</p> <p><b>Depth:</b> (1-5):</p> <p><b>Intensive modules:</b> 2, 3, 8, 9 (EDIT IF MODIFIED)</p> <p><b>Camera No.:</b> _____</p> <p><b>Photo Nos.:</b> _____</p> <p><b>Plot placement:</b> <input type="checkbox"/> 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</p> <p><b>Comments:</b> <u>multiple encroachment issues at top of slope where park property meets residential development.</u></p>																		
<p><b>OVER</b></p>																		

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

Project Label: PCAP

Project Name: \_\_\_\_\_

Glendale Metroparks

Plot No.: \_\_\_\_\_

Page 2 of 2

<u>MODIFIED NATURERESERVE CLASS*</u>		<u>DISTURBANCES</u>				
CODE (on separate form):	Fit= _____ Conf= _____	<u>type*</u>	<u>severity**</u>	<u>yrs ago</u>	<u>% of plot</u>	<u>description</u>
		Human				
		Natural				
		Fire				
		Cut				
		Animal				
		Other				
<u>HOMOGENEITY</u>		<input type="checkbox"/> Homogeneous <input type="checkbox"/> Compositional trend across the plot <input type="checkbox"/> Conspicuous inclusions <input type="checkbox"/> Irregular/pattern mosaic				
		<small>**L=low, ML=med low, M=med, MH=med high, H=high, VH=very high</small>				
<u>CURRENT LAND USE:</u>						
<u>Former Land Use:</u>						
<u>SALINITY*</u>		<u>HYDROLOGIC REGIME*</u>				
<input type="checkbox"/> Saltwater <input type="checkbox"/> Brackish <input type="checkbox"/> Fresh <input type="checkbox"/> Upland (n/a)		<input type="checkbox"/> Upland (seldom flooded) <input type="checkbox"/> Intermittently/seasonally saturated (seldom flooded) <input type="checkbox"/> Permanently/Semipermanent, saturated (dry <1/yr; seldom flooded) <input type="checkbox"/> Occasionally flooded (<1/yr) <input type="checkbox"/> Temporarily flooded (e.g. wind, storms) <input type="checkbox"/> Unknown				
<small>(by default unless plot is a wetland)</small>		<input type="checkbox"/> Intermittently flooded <input type="checkbox"/> Semipermanently flooded <input type="checkbox"/> Permanently flooded <input type="checkbox"/> Tidal/Seiche flooded daily <input type="checkbox"/> Tidal/Seiche flooded monthly <input type="checkbox"/> Tidal/Seiche flooded irregular				
<small>Additional notes &amp; diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.)</small>						