

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

Cleveland Metroparks

Project Label:

PCAP

Plot No: 1157

Date Sampled: 7-19-11 Lead: Eysenbach

Comment required if item answer is NO

Parking/Access outside of Park Boundaries.	Y <input checked="" type="radio"/> N <input type="radio"/>	If yes, write details in Comments section below	
Field journals completed	Y <input checked="" type="radio"/> N <input type="radio"/>		
Site sketch made on 1:3000 map?	Y <input checked="" type="radio"/> N <input type="radio"/>		
Check cover page	X-axis Bearing of plot recorded	Y <input checked="" type="radio"/> N <input type="radio"/>	
	GPS coords Recorded	Y <input checked="" type="radio"/> N <input type="radio"/>	
	North direction recorded	Y <input checked="" type="radio"/> N <input type="radio"/>	
	Photographs taken?	Y <input checked="" type="radio"/> N <input type="radio"/>	
Plot No., Date agreement on all pages?	Y <input checked="" type="radio"/> N <input type="radio"/>		
Header data completed all pages?	Y <input checked="" type="radio"/> N <input type="radio"/>		
Cover classes recorded in all Intensive modules	Y <input checked="" type="radio"/> N <input type="radio"/>		
Browse Level By Species	Y <input checked="" type="radio"/> N <input type="radio"/>		
Woody stem quality control check	Y <input checked="" type="radio"/> N <input type="radio"/>		
Invasive plant quality control check	Y <input checked="" type="radio"/> N <input type="radio"/>		
Ash trees mapped	Y <input checked="" type="radio"/> N <input type="radio"/>	N/A	
Cover by Strata? (confirm cover type)	Y <input checked="" type="radio"/> N <input type="radio"/>		
Soil samples collected with matching plot #	Y <input checked="" type="radio"/> N <input type="radio"/>		
Vouchers labeled on datasheet with initials and number	Y <input checked="" type="radio"/> N <input type="radio"/>		
Vouchers labeled on collection bag	Y <input checked="" type="radio"/> N <input type="radio"/>		
Pink flags removed	Y <input checked="" type="radio"/> N <input type="radio"/>		
Data sheet QA before leaving site?	Y <input checked="" type="radio"/> N <input type="radio"/>		
Common equipment returned to tub.	Y <input checked="" type="radio"/> N <input type="radio"/>		
Data sheets scanned?	7/29/11	Enter date to left	
Final data sheets scanned?		Enter date to left 9-27-11	
Buffer Widths measured?	Y <input checked="" type="radio"/> N <input type="radio"/>	SKE 9-27-11	
Web Soil Survey	Y <input checked="" type="radio"/> N <input type="radio"/>		
Voucher Location	Refrigerator	Y <input checked="" type="radio"/> N <input type="radio"/>	
(# vouchers collected)	Press (#)		Enter number to left
	Drier	Y <input checked="" type="radio"/> N <input type="radio"/>	
	Identified	Y <input checked="" type="radio"/> N <input type="radio"/>	
	Mounted	Y <input checked="" type="radio"/> N <input type="radio"/>	
	Thrown away	Y <input checked="" type="radio"/> N <input type="radio"/>	

## GRTS point verification: Is plot sampleable?

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

## Additional Comments:



# CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

 Metroparks  
Metroparks of Northeast Ohio

Page 1 of 2

<b>GENERAL INFORMATION</b>		<b>LOCATION</b>															
<b>Project Label:</b>	PCAP																
<b>Project Name:</b>	<u>OLBRAO</u> )																
<b>Plot Name:</b>	<u>Gold Star Plot</u>																
<b>Plot No.:</b>	<u>1157</u>																
<input type="checkbox"/> Level 4 (no nested corners sampled) <input checked="" type="checkbox"/> Level 5 (nested corners sampled)																	
<b>Date (mm/dd/yyyy):</b> <u>7/19/2011</u>																	
<b>End date (if &gt; 1 day):</b> / /																	
<b>Party</b>	<b>Role**</b> <u>J. Evansbach</u> <input checked="" type="checkbox"/> Plot leader <u>Z. Bertram</u> <input checked="" type="checkbox"/> Observer <u>M. Birth</u> <input checked="" type="checkbox"/> Walk of soils <u>B. Attack</u> <input checked="" type="checkbox"/> Woody Soils																
<small>** Roles: Co-leader, Ass't. Guide, Owner, Taxonomist, etc.</small>																	
<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 checked="" type="checkbox"/> Accurate <input type="checkbox"/> Hurned																	
subjective evaluation of how much effort put into sampling. Hurried plots may still provide good data																	
<b>TAXONOMIC ACCURACY</b>																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td><input checked="" type="checkbox"/> high</td> <td><input type="checkbox"/> moder.</td> <td><input type="checkbox"/> low</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/> not simpl.</td> </tr> <tr> <td><input type="checkbox"/> vaseul.</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/> n/a</td> </tr> <tr> <td><input type="checkbox"/> bryo</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/> lichen</td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> </table>			<input checked="" type="checkbox"/> high	<input type="checkbox"/> moder.	<input type="checkbox"/> low	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> not simpl.	<input type="checkbox"/> vaseul.	<input checked="" type="checkbox"/>	<input type="checkbox"/> n/a	<input type="checkbox"/> bryo	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> lichen	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
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<input type="checkbox"/> lichen	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>															
<b>TAXONOMIC STANDARD</b>																	
<b>Authority:</b> G&C <b>Pub Date:</b> 1998																	
<small>Minimum required fields in Bold and Underlined</small>																	

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

Sedges, Seedlings,

OVER



**CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet**

Page 1 of 3

Project Label: PCAP Project name: 01 Br 2011 Plot no.: 1157

Total modules: 10 Intensive modules: 4 Plot configuration: 2 X 5

Visual est. % open water entire site: 0 Visual est. %unveg, o.w. entire site: 0

Plot area (ha): 0.1

Visual est. %invasives entire site: 0



**Cleveland  
Metroparks**

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

%open water

%unvegetated open water

%unveg. ground (bare soil)

%unveg. litter (bare litter)

+in lat  
+red base

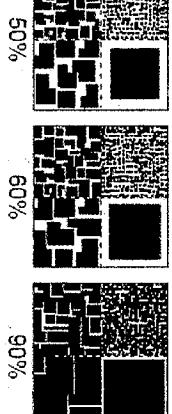
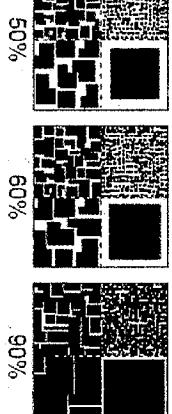
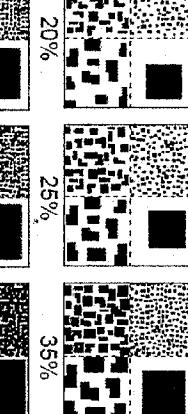
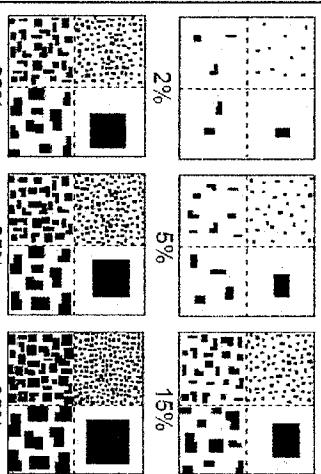
Strata - Cov. entire plot

T	S	H	(F)	(A)	Br	Species	C	Voucher #	mod	corner	R	R												
4	x	1				<i>Carica papaya</i> glabra		145		4	2	4	3		4	4		4	4		4	5		
6	3	1				<i>Acer rubrum</i>		141		4	7	3	2		3	6		2	6					
4	7	2				<i>Fagus grandifolia</i>		147		2	7	4	3	9	20	3	4		2	7				
6						<i>Quercus rubra</i>		142		2	4	3	2	1	2	2		4	2		2	2		
						<i>Quercus alnifolia</i>		141		2	1			1	2	2		4	2		2	2		
2						<i>Rubus allegheniensis</i>		142		2	2	2	1	3	2	1	4	4	3					
4						<i>Carex sp.</i>		142		2	2	2	1	2	1	2	1	4	4	3				
2						<i>Fraxinus</i> seedlings		142		2	1		1			2	1	2	2					
						<i>Unknown dicot</i>		142		2	1													
4	7					<i>Acer saccharum</i>		144		4	6	4	4	9	4	4	6	2	4	5	2	5		
3	1					<i>Prunus serotina</i>		143		3	3	3	2	2	2	2	4	2	2	2	4			
	2					<i>Eragrostis</i> seedlings		143		3	2	3	2	1	2	2	4	2	2	2	2			
2						<i>Acer</i> seedlings		143		2	2	2	1	2	2	2	2	2	2	3	2			
	1					<i>Quercus</i> seedlings		143		1	1	1	1	1	1	1	1	1	1	1	1			
4	5	2				<i>Lindernia dubia</i>		141		1	1													
1						<i>Croceagrus</i> sp.		141		1	1													
	2					<i>Pyrus</i> sp.		141		1	1													
						<i>Moss</i> sp.		141		1	1													
4	2					<i>Sassafras sibiricum</i>		141		1	1													
2						<i>Veronica officinalis</i>		141		1	1													
6						<i>Quercus alba</i> (L.) James	SKC 7-22-11	141		1	1													
1						<i>Carex glaucescens</i>	SKC 4-6-6	141		4	5	1	2											
						<i>Carex rosea</i>		141		2	1													
1						<i>Conopholis americana</i>		141		1	1													
						<i>Butomus umbellatus</i>		141		1	1													
						<i>Vitis</i> seedlings		141		1	1													

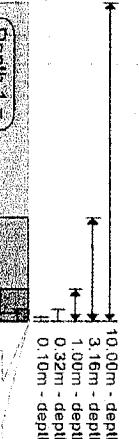
JEM  
8/15/11

### EXAMPLES OF PERCENT OF AREA COVERED

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



### Nested Corners

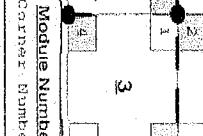
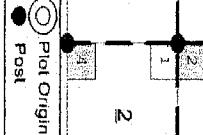
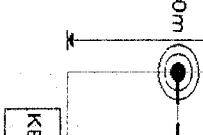
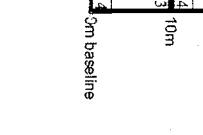
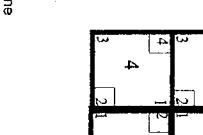
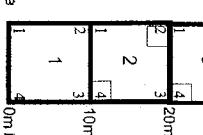
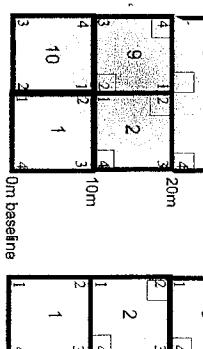
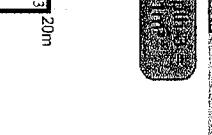
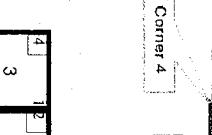
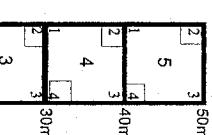
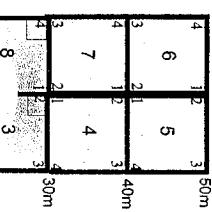


**MEDIUM HIGH** values include evidence of a browse line - and 25 percent or stems browsed with very little vegetation regeneration evident. In this rating, for some species of plants, reproduction does not appear to occur or it is very severely limited.

**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.

### Typical Plot



cover class	% cover	mid point
1	solitary or few	0.001
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.

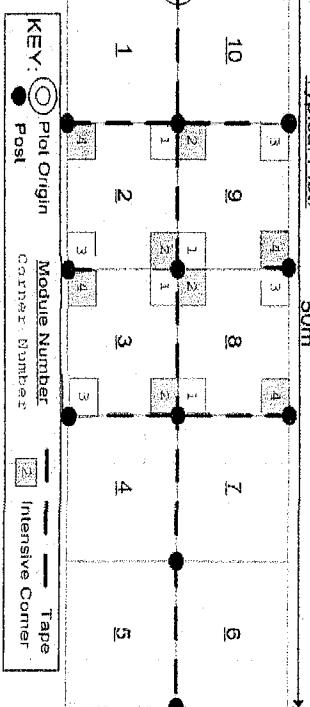
**MEDIUM LOW** values include evidence of browse at about 10 percent of the stems with no significant impact to plant reproduction evident. In this rating, plants are browsed but preferential species are observed to be reproducing in numbers that appear normal or near-normal in comparison to low browse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

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**CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet**

Page 2 of 3

Project Label: PCAP Project name: 01 Br. 2011 Plot no.: 1157

Total modules: 10 Intensive modules: 4 Plot configuration: 2x5

Visual est. % open water entire site:

Visual est. %unveg o.w. entire site:

Visual est. %invasives entire site:



**Cleveland Metroparks**

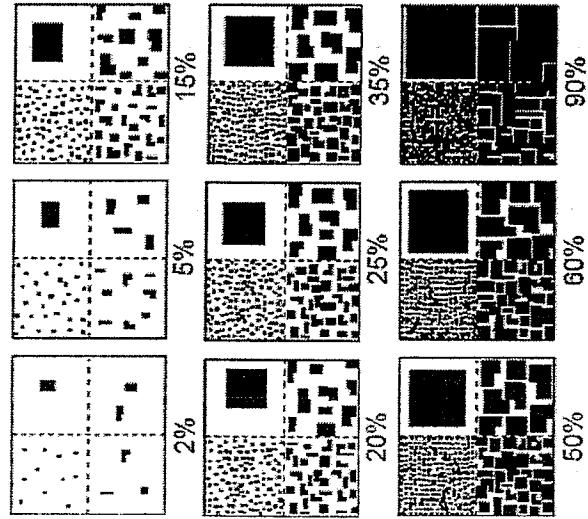
Br = Browse Level. Use cover classes to describe amount of browse per species over entire plot

Strata - Cov. entire plot	T S H (F) (A) Br	Species	Estimate for the each intensive module:											
			mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner
			depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov
		<i>G. Solidago carolina</i>	2	4	2	2	3	4	2	8	4	3	2	R
		<i>Aster sp. Chinky stem</i>	1				1		1		1		1	R
		<i>Toxicodendron radicans</i>	1				1		1		1		1	
		<i>Erechtites hieracifolia</i>	2				1		1		1		1	
		<i>Leersia virginica</i>	2				1		1		1		1	
		<i>Panicum tanakae</i>	2				1		1		1		1	
		<i>Potentilla simplex</i>	2				1		1		1		1	
		<i>Arenaria canadensis</i>	2				1		1		1		1	
		<i>Hedera helix</i>	1				1		1		1		1	
		<i>Carya ovata</i>	54				1		1		1		1	
		<i>Juncus tenuis</i>	1				1		1		1		1	
		<i>Bachmania eretrum</i>	1				1		1		1		1	
		<i>Frangula alnus</i>	1				1		1		1		1	
		<i>Mitchella repens</i>	1				1		1		1		1	
		<i>Garrya elliptica</i>	21				1		1		1		1	
		<i>Danthonia spicata</i>	2				1		1		1		1	
		<i>Anemone nemorosa</i>	3				1		1		1		1	
		<i>Carex sanguinaria</i>	1				1		1		1		1	
		<i>Fraxinus pennsylvanica</i>	2				1		1		1		1	
		<i>Hackelia virginica</i>	1				1		1		1		1	
		<i>Elaeagnus angustifolia</i>	1				1		1		1		1	
		<i>Ulmus seedling</i>	1				1		1		1		1	
		<i>Betaphyllum betatum</i>	1				1		1		1		1	
		<i>Vitis vulpina</i>	1				1		1		1		1	

Strata - Cov. entire plot	T S H (F) (A) Br	Species	Intensive modules: 4 Plot configuration: 2x5 Plot area (ha): 0.1											
			mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner
		<i>G. Solidago carolina</i>	2	4	2	2	3	4	2	8	4	3	2	R
		<i>Aster sp. Chinky stem</i>	1				1		1		1		1	
		<i>Toxicodendron radicans</i>	1				1		1		1		1	
		<i>Erechtites hieracifolia</i>	2				1		1		1		1	
		<i>Leersia virginica</i>	2				1		1		1		1	
		<i>Panicum tanakae</i>	2				1		1		1		1	
		<i>Potentilla simplex</i>	2				1		1		1		1	
		<i>Arenaria canadensis</i>	2				1		1		1		1	
		<i>Hedera helix</i>	1				1		1		1		1	
		<i>Carya ovata</i>	54				1		1		1		1	
		<i>Juncus tenuis</i>	1				1		1		1		1	
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		<i>Ulmus seedling</i>	1				1		1		1		1	
		<i>Betaphyllum betatum</i>	1				1		1		1		1	
		<i>Vitis vulpina</i>	1				1		1		1		1	

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



### BROWSE RATING NARRATIVE DESCRIPTION

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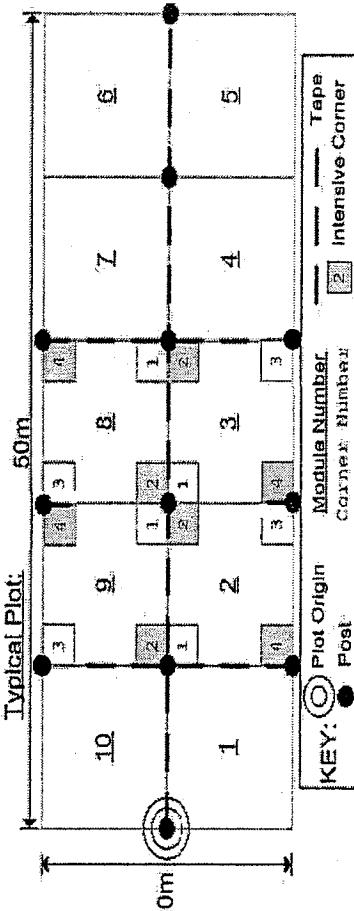
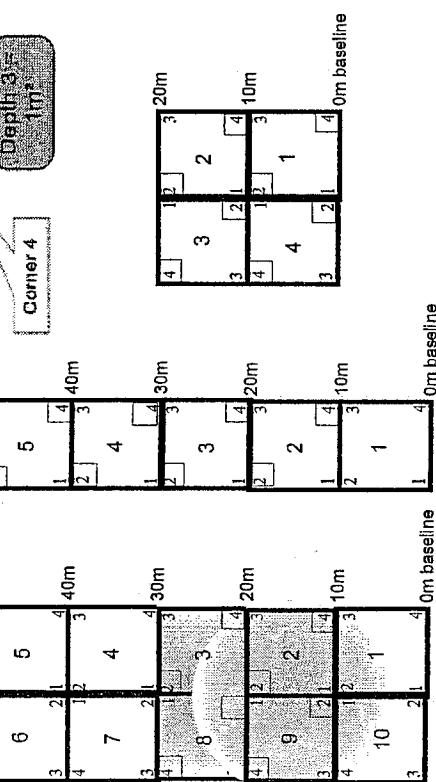
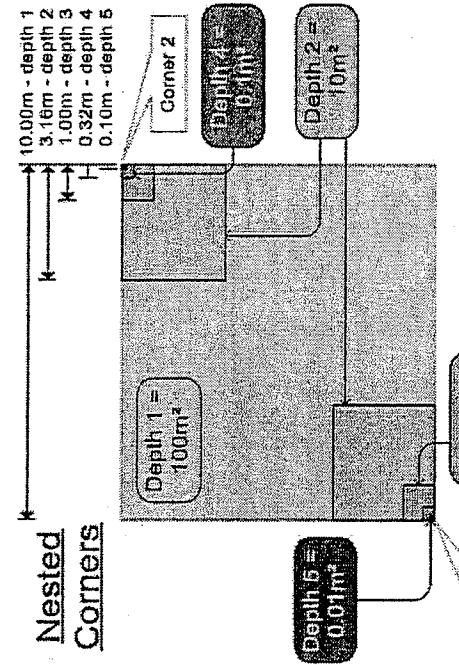
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cover class	% cover	midpoint
1	solitary or few	0.0001
2	0-1%	0.005
3	1-2%	0.015
4	2-5%	0.035
5	5-10%	0.075
6	10-25%	0.175
7	25-50%	0.375
8	50-75%	0.625
9	75-95%	0.850
10	95-100%	0.975



**CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet**

Page 3 of 3

Project Label:

PCAP

Total modules:

10

Visual est. % open water entire site:

4

Visual est. %unveg.o.w. entire site:

—

Visual est. %invasives entire site:

—

Project name: 01/Brc 2011 Plot no.: 1157

Plot area (ha): 0.1

Plot configuration: 2 X 5



**Cleveland  
Metroparks**

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

%unvegetated open water

%unveg. ground (bare soil)

%unveg. litter (bare litter)

Strata - Cov. entire plot

T S H (F) (A) Br

Species

C

Voucher #

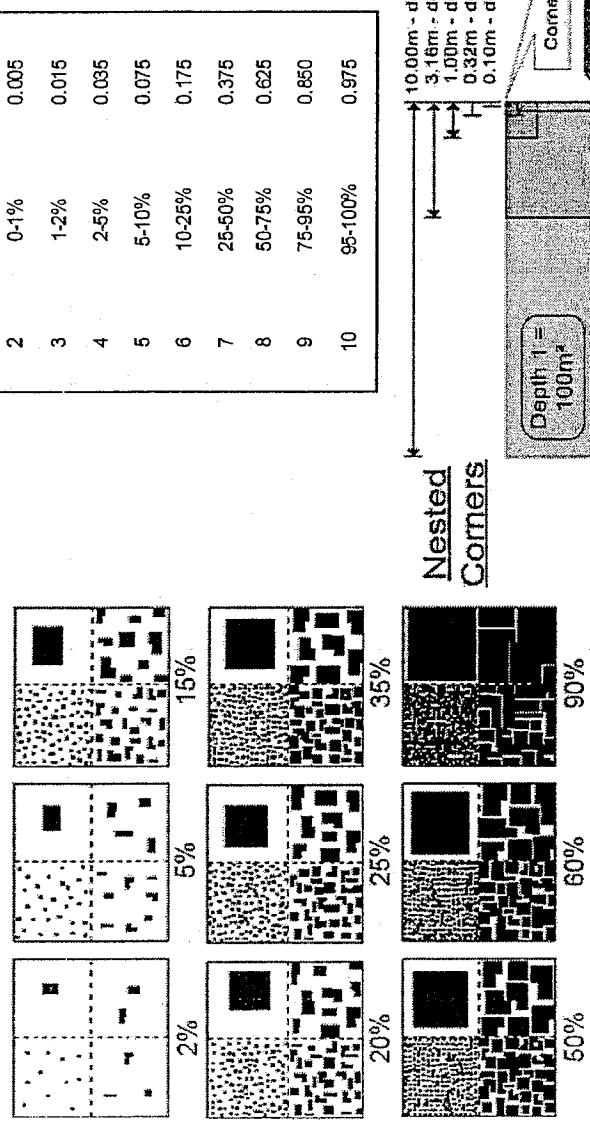
depth

cov

depth

### EXAMPLES OF PERCENT OF AREA COVERED

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



### BROWSE RATING NARRATIVE DESCRIPTION

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

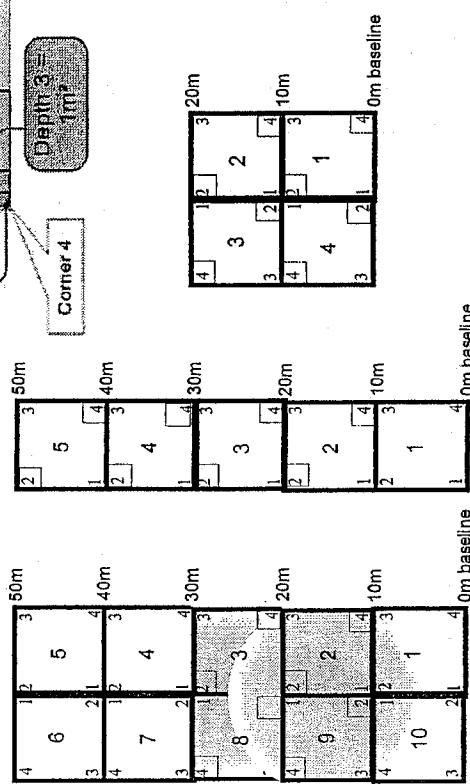
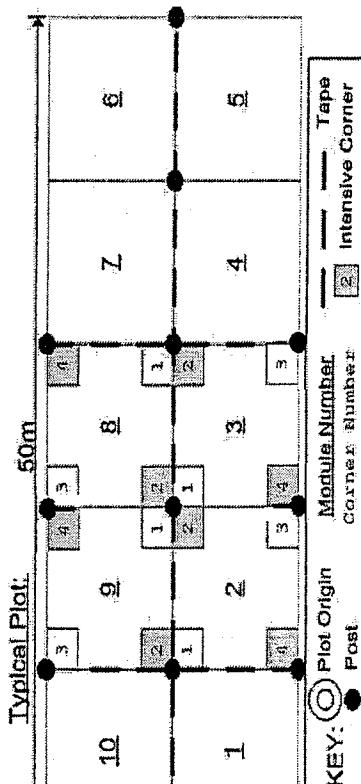
**MEDIUM LOW** values include evidence of browse at about 10 percent of the stems with no significant impact to plant reproduction evident. In this rating, plants are browsed but preferential species are observed to be reproducing in numbers that appear normal or near-normal in comparison to low browse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

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

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

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

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



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

Project Label: PCAP

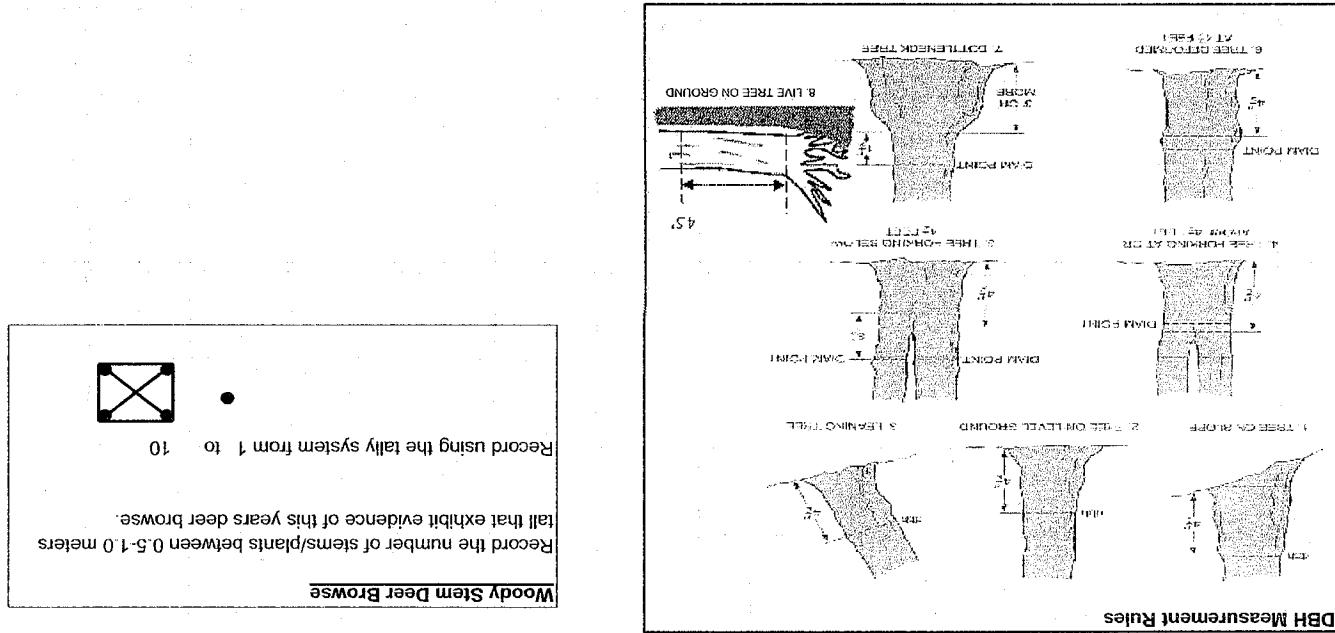
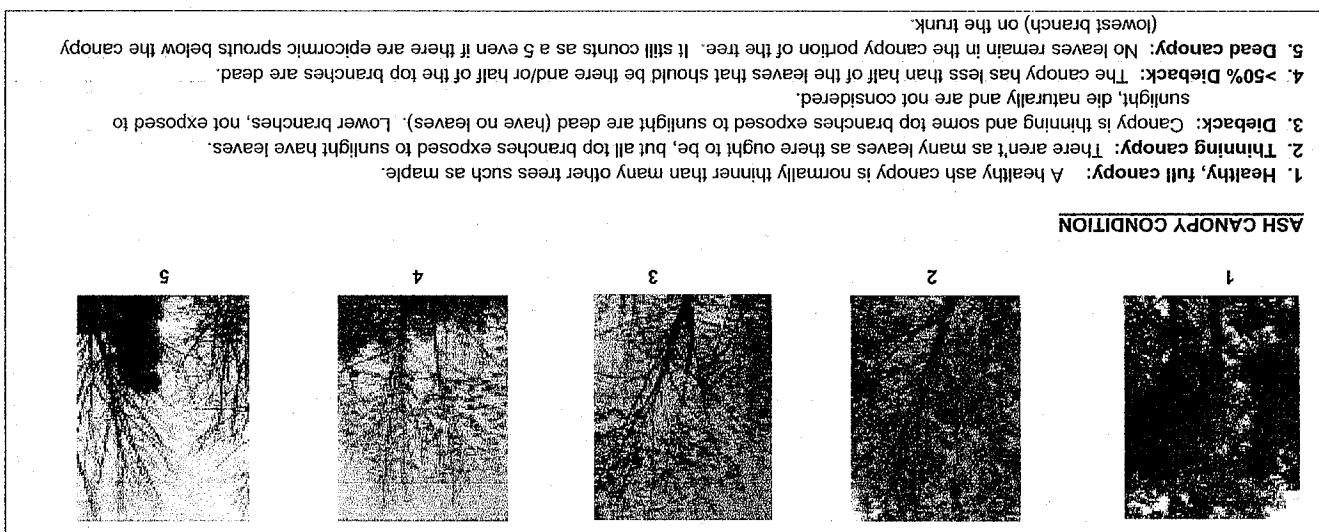
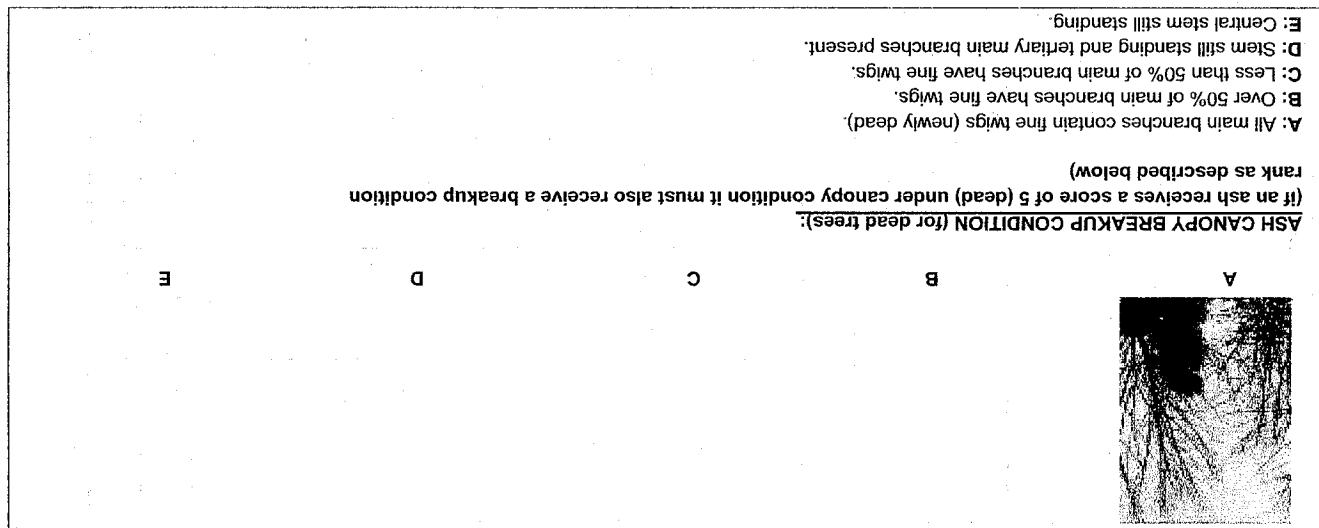
Project Name: O Br 2011

Plot No.: 1157

Page: 1 of 3

Explain subsample (additional room on back):

mod #	species	c voucher#	# stems 0.5-1m browsed	% sub or super sample	# shrub clumps	size class (cm) woody stems > 1m 0-<1	# size class (cm) woody stems > 1m									
							1	2	3	4	5	6	7	8	9	10
													>40 (record each tree)			
1	<i>Acer rubrum</i>					•				•						
1	<i>Acer saccharum</i>					•										
1	<i>Crateagrus</i>															
1	<i>Quercus rubra</i>															
1	Standing Dead															
1	<i>Carya ovata</i>															
2	<i>Fagus grandifolia</i>															
2	<i>Quercus rubra</i>															
2	Standing Dead															
2	<i>Acer saccharum</i>															
2	<i>Sassafras albidum</i>															
3	<i>Prunus serotina</i>					•	•	•	•	•	•	•	•	•	•	•
3	<i>Acer saccharum</i>					•	•	•	•	•	•	•	•	•	•	•
3	Standing Dead															
3	<i>Acer rubrum</i>															
4	<i>Acer saccharum</i>					□	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
4	<i>Quercus rubra</i>															
4	<i>Amelanchier</i> sp.															
4	<i>Quercus alba</i>															
4	Standing Dead					•	•	•	•	•	•	•	•	•	•	•
5	<i>Acer saccharum</i>					•	•	•	•	•	•	•	•	•	•	•
5	<i>Quercus rubra</i>															
5	<i>Ostrya virginiana</i>															



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

Project Label: PCAP

Project Name: OIRV 2011

Plot No.: 1157

Page: 2 of 3

Explain subsample (additional room on back):

mod #	species	c	voucher#	# stems 0.5-1m browsed	% sub sample	# clumps	size class (cm) woody stems >1m										1 <sup>1</sup> >40 (record each tree)
				1	2	3	4	5	6	7	8	9	10				
5	Crateagus sp.						•	•	•	•	•	•	•				
5	Acer rubrum						•	•	•	•	•	•	•				
6	Acer saccharum						•	•	•	•	•	•	•				
6	Acer rubrum						•	•	•	•	•	•	•				
6	Fagus grandifolia						•	•	•	•	•	•	•				
6	Standing Dead						•	•	•	•	•	•	•				
6	Carya ovata						•	•	•	•	•	•	•				
6	Populus grandidentata						•	•	•	•	•	•	•				
7	Acer saccharum						•	•	•	•	•	•	•				
7	Standing Dead						•	•	•	•	•	•	•				
7	Acer rubrum						•	•	•	•	•	•	•				
7	Carpinus caroliniana						•	•	•	•	•	•	•				
7	Quercus rubra						•	•	•	•	•	•	•				
7	Carya glabra ovata						•	•	•	•	•	•	•				
7	Prunus serotina						•	•	•	•	•	•	•				
7	Quercus alba						•	•	•	•	•	•	•				
8	Quercus rubra						•	•	•	•	•	•	•				
8	Acer saccharum						•	•	•	•	•	•	•				
8	Fagus grandifolia						•	•	•	•	•	•	•				
8	Crateagus sp.						•	•	•	•	•	•	•				
8	Acer rubrum						•	•	•	•	•	•	•				
8	Standing Dead						•	•	•	•	•	•	•				
9	Standing Dead						•	•	•	•	•	•	•				
9	Carya ovata						•	•	•	•	•	•	•				



CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP

Project Name: 01 Br 2011

Plot No.: 1151

Page: 3 of 3

Explain subsample (additional room on back)

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

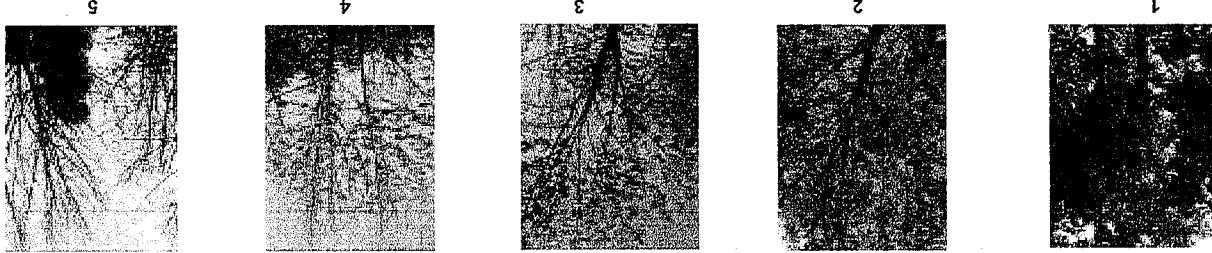
(if an ash receives a score of 5 (dead) under canopy condition it must also receive a breakup condition rank as described below)

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.



**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.

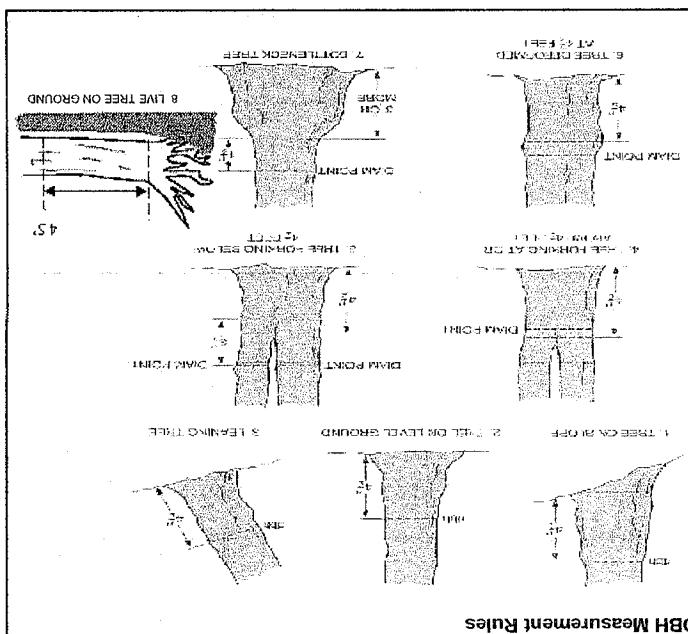


**DBH Measurement Rules**

**Woody Stem Deer Browse**

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

Record using the tally system from 1 to 10



**CLEVELAND METROPARKS Emerald Ash Borer - Fraxinus Sheet**

Project Label: PCAP

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

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

Page: 1 of 2  
JUNIPER HOLLOW

Module ID:	Tree Species	Dead c	Voucher #	DBH (cm)	Ht @ DBH	Ash condition	Dead holes	ASH Only		
								# Exit holes	Epicormic present	Woodpecker holes
1										
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

N

9  
8

2  
3

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

- \* If Ash Condition scores 5 (dead) provide breakup score (A-E)
- Count EAB exit holes  $1.25\text{m}^2 \times 21.5\text{m}$
- Woodpecker and epicormic marked present (1) or absent (0)



# CLEVELAND METROPARKS Plant Community Assessment Program - Soils, Crown Cover, Standing Biomass Data Sheet

Project label: PCAP Project Name: 013, 2011

Plot No.: 157

Page: 1 of 1

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

Soil pit module # 3 (one per entire plot)

5 cm	matrix color	10YR 3/2
mottle color	10YR 3/2	
%mottle	/	
oxid roots	Y	Q
texture*	1	
redox features**	Y	Q
hydr. cond.***	I S Q D	
20 cm	matrix color	10YR 5/3
mottle color	NONE	
%mottle	/	
oxid roots	Y	Q
texture*	1	
redox features**	Y	Q
hydr. cond.***	I S Q D	

**SOL 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)

Soil Collection Module	Horizon (A, B, C)
2,3,8,9 compositd	A

Soil Description/notes:

**STANDING BIOMASS** (required for emergent wetlands): collected in 0.1m clip plots (3x3.2 cm) from corners 1 and 3 in each intensive module. Required for VIBI-E score calculation. C? = check when collected

Module #	C?	Corner	Corner

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

mod#	1 litter + organic depth (cm)	2 litter depth (cm)	3 restrict. depth (cm)	water depth (cm)	sat soil depth (cm)
	*MSSI	(cm)	(cm)	(cm)	(cm)
2	2.5	2.5	34	7.30	Q
3	1.2	1.2	>100	>30	Q
8	2.0	2.0	35	>30	Q
9	2.0	2.0	52	>30	Q

Length of soil probe = 125 cm

\* Use Web Soil Survey for #3 Restrictive layer dept. data JEM 8/15/11

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

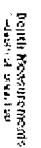
No earthworms found in plot

- Excessively drained
- Somewhat excessively

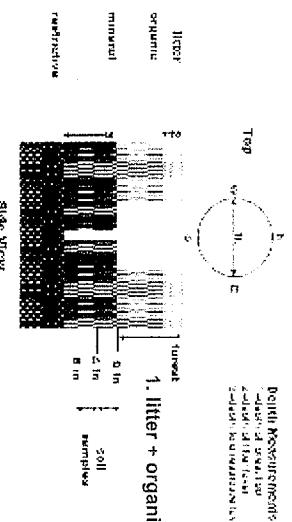
- Moderately well dr.
- Somewhat poorly dr.
- Poorly dr.
- Very poorly dr.
- Impermeable surface



Depth Measurements  
Litter  
Organic  
Mineral  
Rootzone



Depth Measurements  
Litter  
Organic  
Mineral  
Rootzone



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

**PERMANENT FLUOURED**: Water covers the island surface at all times of the year in all years. Equivalents to Cowlardin's permanent

**SEMIPERMAMENTLY 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 Cowlardin's Intermittent Exposed and Semipermanently Flooded

the U.S. where appropriate. This modifier can be applied to both wellland and non-wellland situations. Equivalents in other parts of 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

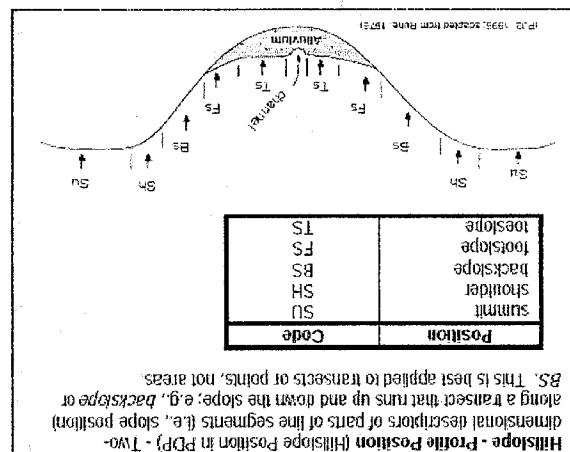
**INTERMITTENTLY FLOODED:** Substrate is usually exposed, but surface events and lower terrace floods can be present for variable periods without detectable substrate. Other characteristics hold, plain equivalents to Gowardin's temporary modifiers.

**ACCUMULATED FLOODPLAIN**: surface water can be present for short periods during growing season, but not in most years; often characterizes floodplain uppers, or reaches.

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

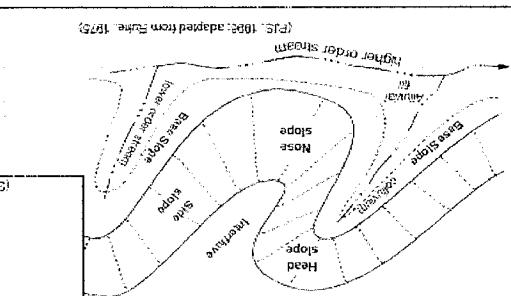
**UPLAND:** Not a wetland. Very rarely flooded.

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



**Hillside - Profile Position (Hillside Position in PDF) - Two-dimensional descriptive parts of line segments (i.e., Possible Position) - Two-B3. This is best applied to lines that run up and down the slope: e.g., backsteps or climbing a staircase.**

Code	Accesses	Reset	RI	TR	Read
------	----------	-------	----	----	------



**Geometricorphic Compaction** - Three-dimensional descriptors of parts of sandbodies or microfeatures that are best applied to areas. Unique dimensions or descriptors of parts of line segments [e.g., slope position in PDF] - TVo-Hillside - Profile Position (Hillside Position in PDF) - TVo along a transect that runs up and down the slope; e.g., slope position of dimensions of descriptiors of parts of line segments [e.g., slope position in PDF] - TVo-Hillside - Profile Position (Hillside Position in PDF) - TVo.

**Legend:**

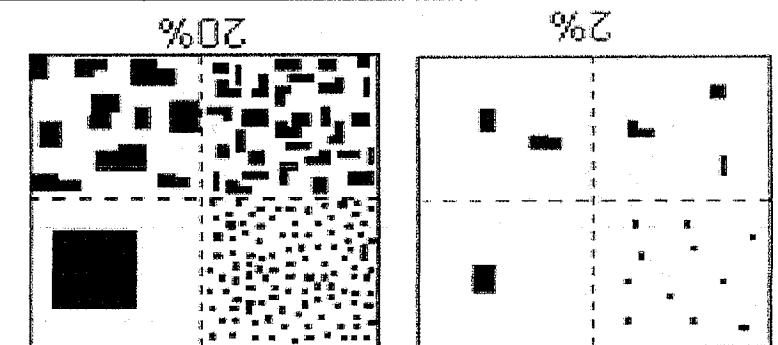
- 0=Organic
- 1=Lamy
- 2=Clayey
- 3=Sandy
- 4=Coarse Sand
- 9=Not measured - make plot note

**Scatter Plot Data:**

Sample Type	Count
Organic	1
Lamy	1
Clayey	1
Sandy	1
Coarse Sand	1
Not measured	1

**Histogram Data:**

Category	Percentage
Organic	2%
Lamy	1%
Clayey	1%
Sandy	1%
Coarse Sand	1%
Not measured	20%
Total	97%



PERCENT MOTTLES (USE CLASS CODES):					
Class	Code	Coeff.	NASIS	Surface Area Covered	Comments
Few	L	$\frac{1}{4}$	m	< 2	Many
Common	C	$\frac{1}{4}$	m	2 to > 20	to 20
Many	M	$\frac{1}{4}$	m	> 20	

CLEVELAND METROPARKS Plant Community Assessment Program - Plant Cover and Earth Surface

Project Label: PCAP

Plot No.: 1157

The Cleveland Metroparks

Page: 1 of 1

COVER BY STRATA (% estimate using midpoints of ex. 3, 6, 12, 18%)		
Strata	Height Range (m)	Total Cover (%)
Tree	> .5	13
Shrub	.5 - .5	58
Herb	< .05	3
(Floating)*	/	/
(Aquatic)**	/	/

- \* rooted and floating or slightly emersed
- \*\* submersed, most plant mass below surface
- SEE BACK OF PAGE FOR "TYPICAL" STRATA DESCRIPTIONS. STRATA CAN VARY BY COVER TYPE.

EARTH SURFACE & GROUND COVER	
Underlying Earth Surface*	Ground Cover
(Sum = 100%)	(Each ≤ 100%)
Hillock	—
Mineral Soil	71
Gravel/Cobble*	1
Litter	93
Bottle* <sup>***</sup>	—
Duff (Fern + Humus)	—
Bedrock	—
Bryophyte-Lichen	3
Water	—
Gravel-Cobble = 1/16 to 10 in	—
"Boulder" = > 10 in	—
>5 cm in diameter	—
<5 cm in diameter	—
Other	—

Remember: In a standard 2x5 plot each module = 10% cover

MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only

Ranks for microhabitat features. Select one or select two and average the score. NOTE: If mod fails on a slope automatically gets ranked based on steepness (1-3). Slope 1 = slight elevational grade across module (hill) Slope 2 = falls on slope ~20° Slope 3 = maximum steepness that can be safely sampled ~45°

0 feature is absent or functionally absent (Golf Course Fld.)

1 feature is present in very small amounts or if more common, of low quality

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

3 feature is present in large amounts and of highest quality

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

c.w.d - count for pieces with minimum 1m length

no. of tussocks	no. of hummocks	no. macro depressions	c.w.d (2.12 cm)	c.w.d (12.40cm)	c.w.d (>40 cm)	microhab.	microhab.
depth 3	depth 2	depth 1	depth 1	depth 1	depth 1	depth 1	depth 1
1x1m	3.16x3.16m	10x10m	10x10m	10x10m	10x10m	10x10m	10x10m
mod#	corner	(count)	(count)	(count)	(count)	(count)	(count)
2	Ø	Ø	19	1	Ø	1	Ø
3	Ø	Ø	2	14	Ø	1	Ø
6	Ø	Ø	Ø	12	Ø	1	Ø
9	Ø	Ø	Ø	14	2	1	Ø

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

macro depressions = macrotopographic depressions with module. These may extend into other modules and be counted again.

c.w.d = coarse woody debris

microhab. interspers... = overall ranking of plot microtopographic interspersal complexity using scale below

TRAIL INFORMATION: If trail falls in plot record type and cover for each	
Type	% Cover
<input type="checkbox"/> All Purpose	
<input type="checkbox"/> Bike	
<input type="checkbox"/> Hiking sanctioned	
<input type="checkbox"/> Bootleg unsanctioned	
<input type="checkbox"/> Gavel	
<input type="checkbox"/> Deer	

No trails

Module	N	S	E	W
2	2	2	1	2
3	1	1	1	2
8	1	0	1	2
9	1	2	4	8

LFI*	TSI**
LFI is angle of plot to the horizon. TSI is angles formed by focal slopes. For TSI measure angle from recorder's eye to eye of person standing ~10 m away.	
+45 degrees	NE
+90 degrees	E
+135 degrees	SE
+180 degrees	S
+225 degrees	SW
+270 degrees	W
+315 degrees	NW

CROWN COVER DENSIMETER: Make 4 readings per module facing N, S, E, W. Place dot count in corresponding space. (4 dots per grid square)	
Not done	

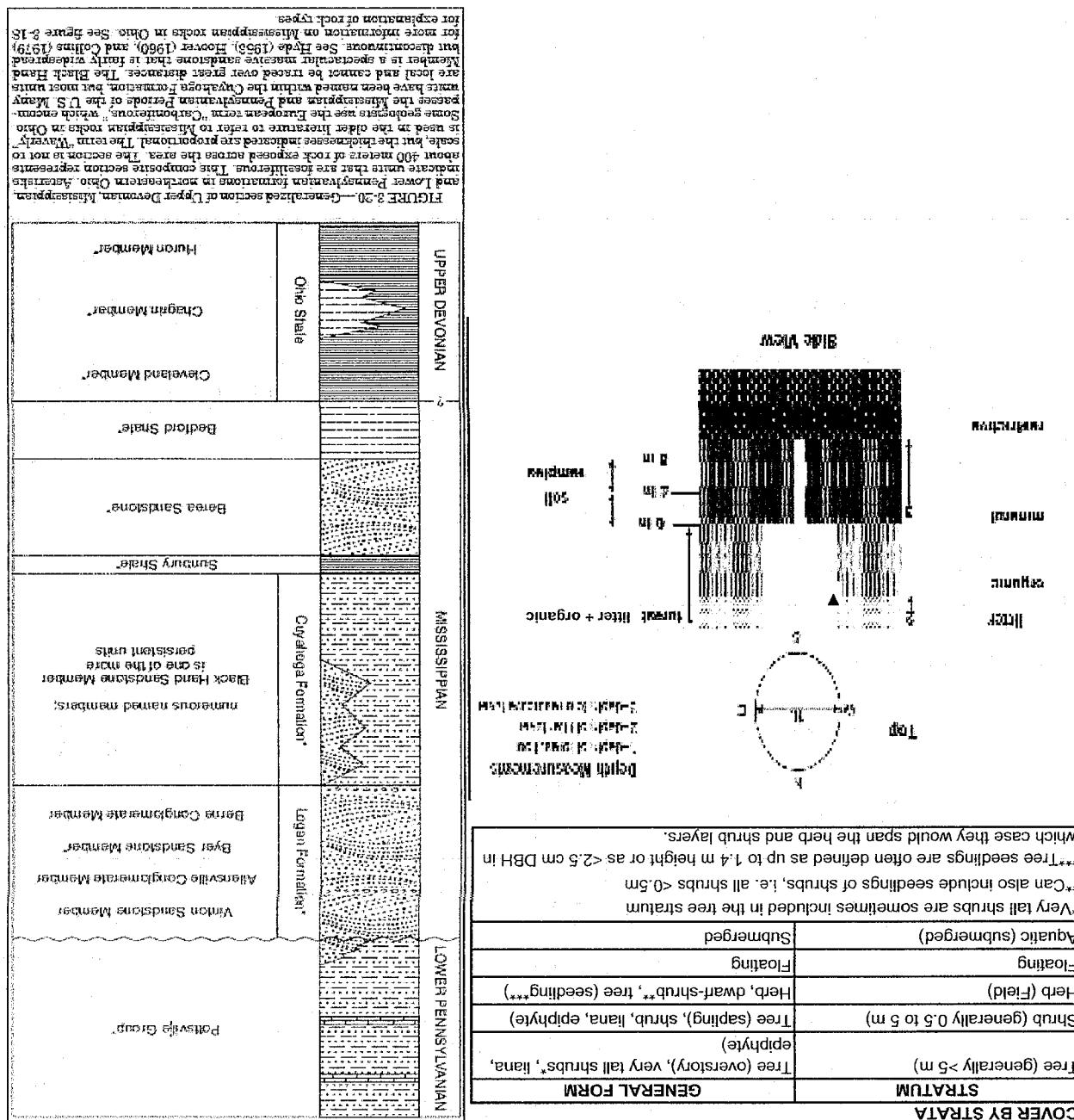
McNAB INDICES (degrees) \* for up - for down

FILLED OUT USING GIS PROGRAM - DO NOT FILL OUT IN FIELD!

LFI*		TSI**	
LFI is angle of plot to the horizon. TSI is angles formed by focal slopes. For TSI measure angle from recorder's eye to eye of person standing ~10 m away.			
+45 degrees	NE	+90 degrees	E
+135 degrees	SE	+180 degrees	S
+225 degrees	SW	+270 degrees	W
+270 degrees	W	+315 degrees	NW

\* Landform Index (position within landscape)

\*\* Terrain Shape Index (site microtopographic shape)



## KM B-1: BUFFER SAMPLE PLOTS (Form E)

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

Site ID: PCAP 1157 BR

DATE: 07/19/2011

Location:

AA Center ON OS OE OW

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

 Plot 1  Plot 2  Plot 3

## Buffer Natural Cover Strata

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

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

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

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

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"/> 0	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	Forest Clear Cut	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	Herbicide Use	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	
Gas Wells	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	Forest Selective Cut	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	Mowing/Shrub Cutting	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	
Mine (surface)	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	Tree Plantation	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	Trails	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	
Mine (underground)	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	Tree Canopy Herbivory (INSECT)	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	Soil Compaction (ANIMAL OR HUMAN)	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	
Military	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	Shrub Layer Browsed (WILD OR DOMESTIC)	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	Offroad vehicle damage	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	
Other: _____	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	Highly Grazed Grasses (OVERALL <3" HIGH)	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	Soil erosion (FROM WIND, WATER, OR OVERUSE)	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	
Other: _____	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	Recently Burned Forest Canopy	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	Other: _____	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	
Other: _____	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	Recently Burned Grassland (BLACKENED)	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	Other: _____	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	

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)											
<input checked="" type="checkbox"/> Confirm a filled data bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble											
Fill bubble if present - Plot 1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Flag	Fill bubble if present - Plot 1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Flag	Fill bubble if present - Plot 1	<input type="radio"/>
Eurasian Watermilfoil	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Purple Loosestrife	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	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 Selaginella	<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"/>
Pisonia Hemlock	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Chenopodium	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Tamarsk	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mile-A-Minute Vine	<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"/>
Canadian Thistle	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Leary Sedge	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Other	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Provide GPS coordinates at the center of the Buffer Plot (#3) at the rear of each Buffer Transect and for the Buffer Plot at the AA CENTER. Indicate the location of GPS coordinates at the center of the Buffer Plot (#3) at the rear of each Buffer Transect and for the Buffer Plot at the AA CENTER. Indicate the location of plot coordinates by filling in the appropriate bubble.											
If Buffer Plot 3 can not be accessed, take the coordinates at the nearest practicable location ALONG THE TRANSECT. This is important because all Buffer Plots are centred on the Buffer Transects and the coordinates will indicate the location of the transect. Fill in the "nearest practicable location" bubble, fill in the flag box, and describe where the coordinates were taken and why in the comment section below. The coordinates of the nearest practicable location can be either placed as close to the centre of Plot 3 as possible or at the last accessible Buffer Plot.											
AA CENTER <input type="radio"/> N3 <input type="radio"/> S3 <input type="radio"/> E3 <input type="radio"/> W3 <input type="radio"/> Nearest Practicable location (flag and comment below)											
Latitude North <b>41 29 0.69</b> Longitude West <b>081 58 8.39</b> Use Decimal Degrees: NAD83											
Flag    Comments											

## M B-1: BUFFER SAMPLE PLOTS (Part I)

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

Site ID: PCAP 1157 BR

DATE: 07/18/2011

Location:

 AA Center     N     OS     O E     O W

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

 Plot 1     Plot 2     Plot 3

1

## Buffer Natural Cover Strata

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

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

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

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

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

2426168304

Buffer Sample Plots 05/27/2011

I Plot 3 falls on steep slopes that cannot be safely accessed especially with the run last night. Community types did not change (roses + shrubs which low hills cover a lot of area). Plot 3 has a mix of native species to avoid plot 2.

Flag	Comments
2	

Use Decimal Degrees; NAD83

Latitude North 41 29.168 Longitude West 081 58.846

Flag
2

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

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

## PLOT COORDINATES

Fill bubble if present - Plot 1	2	3	Flag	Fill bubble if present - Plot 1	2	3	Flag	Fill bubble if present - Plot 1	2	3	Flag
Eurasian Watermilfoil	○	○		Purple Loosestrife	○	○		Johnson Grass	○	○	
Water Hyacinth	○	○		Knotweed	○	○		Kudzu	○	○	
Yellow Flowering Heart	○	○		Japanese Knotweed	○	○		Multiflora Rose	○	○	
Giant Saurina	○	○		Ferninal Pepperweed	○	○		Common Buckthorn	○	○	
Garlic Mustard	○	○		Giant Reed	○	○		Himalayan Blackberry	○	○	
Poison Hemlock	○	○		Cheesegrass	○	○		Tamisk	○	○	
Mile-A-Minute Weed	○	○		Reed Canary Grass	○	○		Other	○	○	
Birdsfoot Trefoil	○	○		Common Reed	○	○		Leary Spurge	○	○	
Canada Thistle	○	○		Other	○	○		Other	○	○	

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

Site ID: PCAP 1157 BR Date: 03/18/2011

## RM B-1: BUFFER SAMPLE PLOTS (ft. x ft.)

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

Site ID: 1157 Br PCAP

DATE: 7/19/2011

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

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

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

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

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

2428168304

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

Buffer Sample Plots 05/27/2011

6

1

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

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

RECORDED IN U.S. PATENT AND TRADEMARK OFFICE

PLATO COORDINATES

## M B-1: BUFFER SAMPLE PLOTS (F, L, It)

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

Site ID: PCAP 1157 BR

DATE: 07/18/2011

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

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

Residential and Urban Stressors				Hydrology Stressors				Agricultural & Rural Stressors						
Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag
Road - gravel	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Ditches, Channelization	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Pasture/Hay	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			
Road - two lane	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Dike/Dam/Road/RR Bed (IMPEDE FLOW)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Range	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			
Road - four lane	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Water Level Control Structure	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Row Crops	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			
Parking Lot/Pavement	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Excavation, Dredging	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Fallow Field (RECENT-RESTING ROW CROP FIELD)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			
Golf Course	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Fill/Spoil Banks	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Fallow Field (OLD - GRASS, SHRUBS, TREES)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			
Lawn/Park	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Freshly Deposited Sediment (UNVEGETATED)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Nursery	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			
Suburban Residential	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Soil Loss/Root Exposure	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input checked="" type="radio"/> 2 <input checked="" type="radio"/> 3 <input type="radio"/> 4				Dairy	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			
Urban/Multifamily	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Wall/Riprap	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Orchard	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			
Landfill	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Inlets, Outlets	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Confined Animal Feeding	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			
Dumping	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Point Source/Pipe (EFFLUENT OR STORMWATER)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Rural Residential	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			
Trash	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Impervious surface input (SHEETFLOW)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Gravel Pit	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			
Other: _____	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Other: _____	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Irrigation	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			
Other: _____	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Other: _____	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Other: _____	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			

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"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Forest Clear Cut	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Herbicide Use	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			
Gas Wells	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Forest Selective Cut	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Mowing/Shrub Cutting	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			
Mine (surface)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Tree Plantation	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Trails	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			
Mine (underground)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Tree Canopy Herbivory (INSECT)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Soil Compaction (ANIMAL OR HUMAN)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			
Military	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Shrub Layer Browsed (WILD OR DOMESTIC)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Offroad vehicle damage	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			
Other: _____	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Highly Grazed Grasses (OVERALL <1" HIGH)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Soil erosion (FROM WIND, WATER, OR OVERUSE)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			
Other: _____	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Recently Burned Forest Canopy	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Other: _____	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			
Other: _____	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Recently Burned Grassland (BLACKENED)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				Other: _____	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			

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



## RM B-1: BUFFER SAMPLE PLOTS (F...it)

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

Site ID:

DATE: / /

Location:

 AA Center     N     OS     OE     W

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

 Plot 1     Plot 2     Plot 3

## Buffer Natural Cover Strata

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

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

Buffer Plot 1	Canopy Type: <input 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	Leaf Type: <input checked="" type="radio"/> B <input type="radio"/> N		Leaf Type: <input checked="" type="radio"/> B <input type="radio"/> N	Flag	Leaf Type: <input checked="" type="radio"/> B <input type="radio"/> N		Leaf Type: <input checked="" type="radio"/> B <input type="radio"/> N	Flag	
Big Trees (>0 3m DBH)	<input checked="" type="radio"/>	1	<input type="radio"/>	2	<input type="radio"/>	3	<input type="radio"/>	4	<input type="radio"/>	1	<input type="radio"/>
Small Trees (<0 3m DBH)	<input type="radio"/>	0	<input type="radio"/>	1	<input type="radio"/>	2	<input type="radio"/>	3	<input checked="" type="radio"/>	0	<input type="radio"/>
Woody Shrubs, Saplings (0.5m-5m HIGH)	<input checked="" type="radio"/>	0	<input checked="" type="radio"/>	1	<input type="radio"/>	2	<input type="radio"/>	3	<input type="radio"/>	0	<input type="radio"/>
Woody Shrubs, Saplings (<0.5m HIGH)	<input type="radio"/>	0	<input checked="" type="radio"/>	1	<input type="radio"/>	2	<input type="radio"/>	3	<input type="radio"/>	0	<input type="radio"/>
Herbs, Forbs and Grasses	<input type="radio"/>	0	<input checked="" type="radio"/>	1	<input type="radio"/>	2	<input type="radio"/>	3	<input type="radio"/>	0	<input type="radio"/>
Bare ground	<input type="radio"/>	0	<input checked="" type="radio"/>	1	<input type="radio"/>	2	<input type="radio"/>	3	<input type="radio"/>	0	<input type="radio"/>
Litter, duff	<input type="radio"/>	0	<input type="radio"/>	1	<input type="radio"/>	2	<input type="radio"/>	3	<input checked="" type="radio"/>	0	<input type="radio"/>
Rock	<input checked="" type="radio"/>	0	<input type="radio"/>	1	<input type="radio"/>	2	<input type="radio"/>	3	<input type="radio"/>	0	<input type="radio"/>
Water	<input checked="" type="radio"/>	0	<input type="radio"/>	1	<input type="radio"/>	2	<input type="radio"/>	3	<input type="radio"/>	0	<input type="radio"/>
Submerged Vegetation	<input checked="" type="radio"/>	0	<input type="radio"/>	1	<input type="radio"/>	2	<input type="radio"/>	3	<input type="radio"/>	0	<input type="radio"/>
Submerged Vegetation	<input checked="" type="radio"/>	0	<input type="radio"/>	1	<input type="radio"/>	2	<input type="radio"/>	3	<input type="radio"/>	0	<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/Roof 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 (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"/>	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 checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" 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 checked="" type="radio"/>	<input type="radio"/>	Offroad vehicle damage	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Other:	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Highly Grazed Grasses (OVERALL <3" HIGH)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Soil erosion (FROM WIND, WATER, OR OVERUSE)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Other:	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Recently Burned Forest Canopy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Other:	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Other:	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Recently Burned Grassland (BLACKENED)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Other:	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

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

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

2428168304

Buffer Sample Plots 05/27/2011

FORM B-1: BUFFER SAMPLE PLOTS - TARGETED ALIEN SPECIES (BACK)											
<p>Site ID: PCAP 1157 BE DATE: 07/11/81 00:11</p> <p>Reviewed by (initials): _____</p> <p>• Confirm a filled data bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble</p>											
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"/>	Purple Loosestrife	<input type="checkbox"/>	<input type="checkbox"/>	Johnson's Grass	<input type="checkbox"/>	<input type="checkbox"/>			
Water Hyacinth	<input type="checkbox"/>	<input type="checkbox"/>	Knotweed	<input type="checkbox"/>	<input type="checkbox"/>	Kudzu	<input type="checkbox"/>	<input type="checkbox"/>			
Yellow Floating Heart	<input type="checkbox"/>	<input type="checkbox"/>	Japanese Knotweed	<input type="checkbox"/>	<input type="checkbox"/>	Multiflora Rose	<input type="checkbox"/>	<input type="checkbox"/>			
Giant Salvinia	<input type="checkbox"/>	<input type="checkbox"/>	Peternail Pepperweed	<input type="checkbox"/>	<input type="checkbox"/>	Carmomum Buckthorn	<input type="checkbox"/>	<input type="checkbox"/>			
Giant Mustard	<input type="checkbox"/>	<input type="checkbox"/>	Giant Reed	<input type="checkbox"/>	<input type="checkbox"/>	Himalayan Blackberry	<input type="checkbox"/>	<input type="checkbox"/>			
Poison Hemlock	<input type="checkbox"/>	<input type="checkbox"/>	Chenopodium	<input type="checkbox"/>	<input type="checkbox"/>	Tamarsk	<input type="checkbox"/>	<input type="checkbox"/>			
Mile-A-Minute Weed	<input type="checkbox"/>	<input type="checkbox"/>	Reed Canary Grass	<input type="checkbox"/>	<input type="checkbox"/>	Other	<input type="checkbox"/>	<input type="checkbox"/>			
Birdsfoot Trefoil	<input type="checkbox"/>	<input type="checkbox"/>	Common Reed	<input type="checkbox"/>	<input type="checkbox"/>	Other	<input type="checkbox"/>	<input type="checkbox"/>			
Canadian Thistle	<input type="checkbox"/>	<input type="checkbox"/>	Leary Sedge	<input type="checkbox"/>	<input type="checkbox"/>	Other	<input type="checkbox"/>	<input type="checkbox"/>			
<p>Provide GPS coordinates at the center of the Buffer Plot (#3) at the far end of each Buffer Transect and for the Buffer Plot at the AA CENTER. Indicate the location of GPS coordinates at the center of the Buffer Plot (#3) at the far end of each Buffer Transect and for the Buffer Plot at the AA CENTER. Indicate the location of plot coordinates by filling in the appropriate bubble.</p> <p>If Buffer Plot 3 can not be accessed, take the nearest practicable location ALONG THE TRANSECT. This is important because all Buffer Plots are centered on the Buffer Transects and the coordinates will indicate the location of the nearest Plot. The coordinates of the "nearest practicable location" can be either placed as close to the center of Plot 3 as possible or at the center of the last accessible Buffer Plot.</p> <p>Plots are centered on the Buffer Transects and the coordinates will indicate the location of the nearest Plot. The coordinates of the "nearest practicable location" can be either placed where the coordinates were taken and why in the comment section below. The coordinates of the "nearest practicable location" can be either placed as close to the center of Plot 3 as possible or at the center of the last accessible Buffer Plot.</p>											
<p>Location of coordinates (choose one):</p> <p>AA CENTER    O N3    O S3    O E3    <input checked="" type="checkbox"/> W3    O Nearest practicable location (flag and comment below)</p>											
<p>Latitude North    41    29.01.2    Longitude West    081.59.00.2    Use Decimal Degrees; NAD83</p>											
<p>Flag    Comments</p> <p>1 deer trail</p>											

# CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

Page 1 of 2

## GENERAL INFORMATION

Project Label: PCAP

Project Name:

Plot Name:

Plot No.: 1157

- Level 4 (no nested corners sampled)
- Level 5 (nested corners sampled)

Date (mm/dd/yyyy): / /

End date (if > 1 day): / /

Party

Role\*\*

Reason:

If data not public why?

Source of coordinates  MAP  GPS

GPS location in plot x=0 to 5, y=-1,0,+1;

x =  y =  (base of plot x=0, y=0)

Coordinate system:

Coord. Units

Lat/Long  UTM  StatePlane  deg  deg min

Other  m  ft  in

Datum:  NAD83/WGS84  NAD27

Latitude: 41.291051

Longitude: 81.55546

Coord. Accuracy: ± m  ft  in

GPS File Name: 1157A

Plot size for cover data:  0.1 (hectares)

Stems not sampled on this plot  Stems absent

Stems present Plot size/stems:  0.1 (ha)

Depth: (1-5):

Intensive modules: 2, 3, 8, 9 (EDIT IF MODIFIED)

Camera No.: \_\_\_\_\_

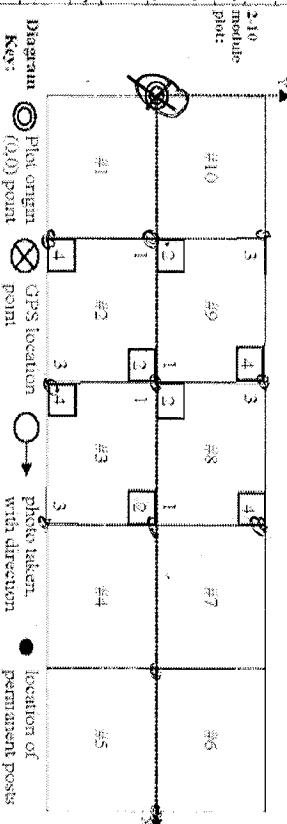
Photo Nos.: \_\_\_\_\_

Authority: G&C Pub Date: 1998

Minimum required fields in Bold and Underlined

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

<u>State:</u> OH	<u>County:</u>
<u>Quadrangle:</u>	
<u>Local Place Names:</u>	
<u>Landowner:</u>	
<u>X-axis Bearing of plot:</u> [C&S] °	
<u>Data Confidentiality:</u>	
<input type="checkbox"/> Fuzz 100m <input type="checkbox"/> Fuzz 250m <input type="checkbox"/> Fuzz 500m	



Plot placement:  Representative  GRTS  Random  Stratified Random  
 Transect component  Systematic (grid)  Capture specific feature  Other

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

Location: Oak over canopy. Plot runs East to West & capture this community type. To the West the trees are younger with less oak and to the South is a steep slope.

**OVER**

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

Project Label: PCAP

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

Page 2 of 2

CLASSIFICATION		STAND SIZE		DISTURBANCES		
(Fit = excellent, good, fair, poor; CONF = high, med, low)		<input type="checkbox"/> >1,000 x plot size <input type="checkbox"/> >100 x plot size <input type="checkbox"/> 10-100 x plot size <input type="checkbox"/> 3-10 x plot size <input type="checkbox"/> 1-3 x plot size <input type="checkbox"/> < plot size		type*	severity**	yrs ago % of plot description
<b>Hydrogeomorphic class (WETLANDS ONLY):</b>		Fit= _____	Conf= _____	Human		
		Fit= _____	Conf= _____	Natural		
□ DEPRESSION		Fit= _____	Conf= _____	Fire		
□ IMPOUNDMENT □ Beaver □ Human		Fit= _____	Conf= _____	Cut		
□ RIVERINE □ Headwater □ Mainstem □ Channel		Fit= _____	Conf= _____	Animal		
□ SLOPE (ground water hydrology or on a physical slope)		Fit= _____	Conf= _____	Other		
□ FRINGING □ Reservoir □ Natural Lake		Fit= _____	Conf= _____			
□ COASTAL (specify subclass)		Fit= _____	Conf= _____			
□ BOG (strongly, moderately, weekly ombrotrophic)		Fit= _____	Conf= _____			
<b>Ohio EPA VIBI Plant Community Class (WETLANDS ONLY):</b>		Fit= _____	Conf= _____			
□ FOREST □ swamp forest □ bog forest □ forest seep		Fit= _____	Conf= _____			
□ EMERGENT □ marsh □ wet meadow □ open bog		Fit= _____	Conf= _____			
□ SHRUB □ shrub swamp □ tall sh. bog □ tall sh. fen		Fit= _____	Conf= _____			
<b>MODIFIED NATURESERVE CLASS*</b>		Fit= _____	Conf= _____			
CODE (on separate form):		Fit= _____	Conf= _____			
COMMUNITY NAME:						
<b>LANDFORM TYPE**:</b>						
<b>HOMOGENEITY</b>		Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.)				
		<input type="checkbox"/> Homogeneous <input type="checkbox"/> Compositional trend across the plot <input type="checkbox"/> Conspicuous inclusions <input type="checkbox"/> Irregular/pattern mosaic				

Take Snowville Rd to Echo Hill dr - park at dead end and  
hike in 350 m.

Soil ~ rocky so flat can't ~~be~~ very deep, may be missing

Consider bringing metal detector

