

CLEVELAND METROPARKS Plant Community Assessment Program: Quality Control Form



Project Label: PCAP

Plot No: 1176

Date Sampled: 8-5-11

Lead:

Eysenbach

Comment required if item answer is NO

Parking/Access outside of Park Boundaries.	<input checked="" type="radio"/> Y <input type="radio"/> N	If yes, write details in Comments section below
Field journals completed	<input checked="" type="radio"/> Y <input type="radio"/> N	
Site sketch made on 1:3000 map?	<input checked="" type="radio"/> Y <input type="radio"/> N	
Check cover page	X-axis Bearing of plot recorded	<input checked="" type="radio"/> Y <input type="radio"/> N
	GPS coords. Recorded	<input checked="" type="radio"/> Y <input type="radio"/> N
	North direction recorded	<input checked="" type="radio"/> Y <input type="radio"/> N
	Photographs taken?	<input checked="" type="radio"/> Y <input type="radio"/> N
Plot No., Date agreement on all pages?	<input checked="" type="radio"/> Y <input type="radio"/> N	
Header data completed all pages?	<input checked="" type="radio"/> Y <input type="radio"/> N	
Cover classes recorded in all Intensive modules	<input checked="" type="radio"/> Y <input type="radio"/> N	
Browse Level By Species	<input checked="" type="radio"/> Y <input type="radio"/> N	
Woody stem quality control check	<input checked="" type="radio"/> Y <input type="radio"/> N	
Invasive plant quality control check	<input checked="" type="radio"/> Y <input type="radio"/> N	
Ash trees mapped	<input checked="" type="radio"/> Y <input type="radio"/> N	N/A
Cover by Strata? (confirm cover type)	<input checked="" type="radio"/> Y <input type="radio"/> N	
Soil samples collected with matching plot #.	<input checked="" type="radio"/> Y <input type="radio"/> N	
Vouchers labeled on datasheet with initials and number	<input checked="" type="radio"/> Y <input type="radio"/> N	N/A
Vouchers labeled on collection bag	<input checked="" type="radio"/> Y <input type="radio"/> N	N/A
Pink flags removed	<input checked="" type="radio"/> Y <input type="radio"/> N	
Data sheet QA before leaving site?	<input checked="" type="radio"/> Y <input type="radio"/> N	
Common equipment returned to tub.	<input checked="" type="radio"/> Y <input type="radio"/> N	
Data sheets scanned?	8-23-11 Enter date to left	
Final data sheets scanned?	8-23-11 Enter date to left	
Buffer Widths measured?	<input checked="" type="radio"/> Y <input type="radio"/> N	
Web Soil Survey	<input checked="" type="radio"/> Y <input type="radio"/> N	
Voucher Location	Refrigerator	<input checked="" type="radio"/> Y <input type="radio"/> N
(# vouchers collected)	Press (#)	<input type="text"/> Enter number to left
	Drier	<input checked="" type="radio"/> Y <input type="radio"/> N
	Identified	<input checked="" type="radio"/> Y <input type="radio"/> N
	Mounted	<input checked="" type="radio"/> Y <input type="radio"/> N
	Thrown away	<input checked="" type="radio"/> Y <input type="radio"/> N

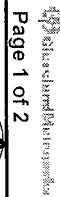
GRTS point verification: Is plot sampleable?

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

Additional Comments:

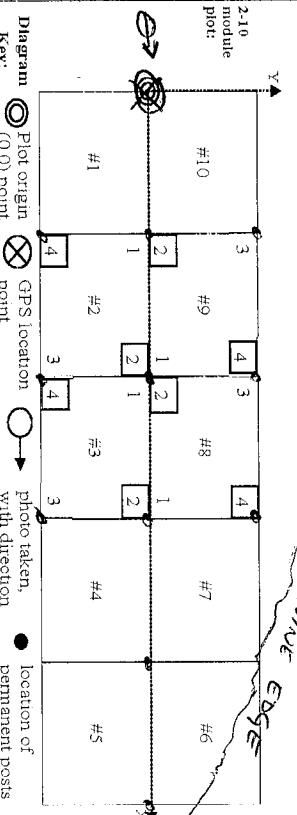


CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet



Page 1 of 2

GENERAL INFORMATION	
Project Label:	PCAP
Project Name:	115C2e11
Plot Name:	The Andy Dance
Plot No.:	1176
<input type="checkbox"/> Level 4 (no nested corners sampled) <input checked="" type="checkbox"/> Level 5 (nested corners sampled)	
Date (mm/dd/yyyy):	08/22/2011
End date (if > 1 day):	/ /
Party:	D STOVER Entomologist 2 BAEREN Plot leader A Mack S Eisendbach J Murphy Trees
Role**:	Plot leader Soils/Trees Finished land
<small>** Roles: Co-leader, Asst., Co-dec., Owner, Taxonomist, etc.</small>	
PLOT NOT SAMPLED: <input type="checkbox"/> Other <input type="checkbox"/> Perm. water <input type="checkbox"/> Paved <input type="checkbox"/> Slope <input type="checkbox"/> Safety	
SAMPLING QUALITY* <small>subjective evaluation of how much effort put into sampling. Hurried plots may still provide good data</small>	
Effort Level: <input checked="" type="checkbox"/> Very thorough <input type="checkbox"/> Accurate <input type="checkbox"/> Hurried	
LOCATION	
State:	OH
County:	CUYAHOGA
Quadrangle:	CASAGRANDE
Local Place Names:	HAWTHORN PKWY
Landowner:	CLE METROP
X-axis Bearing of plot:	[90]°
Data Confidentiality:	<input type="checkbox"/> Public data <input type="checkbox"/> Private Data
<small>Check one: <input type="checkbox"/> Fuzz 100m <input type="checkbox"/> Fuzz 250m <input type="checkbox"/> Fuzz 500m</small>	
Reason: <small>If data not public why?</small>	
<small>Source of coordinates <input type="checkbox"/> MAP <input checked="" type="checkbox"/> GPS</small> <small>GPS location in plot x=0 to 5, y=-1,0,+1):</small> <small>x = 0 y = 0 (base of plot x=0, y=0)</small>	
Coordinate system: Coord. Units <small>■ Lat/Long <input type="checkbox"/> UTM <input type="checkbox"/> StatePlane <input checked="" type="checkbox"/> deg <input type="checkbox"/> deg min</small> <small>□ m <input type="checkbox"/> ft <input checked="" type="checkbox"/> in</small>	
<small>E Other (specify) NAD83/WGS84 <input type="checkbox"/> NAD27</small>	
Latitude: 41.41706	
Longitude: 81.42776	
Coord. Accuracy: 1 m <input type="checkbox"/> ft +/-1.0	
GPS File Name: 1176A	
Plot size for cover data: 0.1 (hectares)	
<small><input type="checkbox"/> Stems not sampled on this plot <input type="checkbox"/> Stems absent</small>	
<small>*Stems present Plot size stems 0.1 (ha)</small>	
Depth: (1-5): 4	
Intensive modules: 2, 3, 8, 9 (EDIT IF MODIFIED)	
Camera No.: J	
Photo Nos.: C3-0589, 0590	
<small>Low: New York Fern, Canada Mayflower, Heuchera After seedlings</small>	
TAXONOMIC STANDARD	
Authority: G&C Pub Date: 1998	
<small>Minimum required fields in Bold and Underlined</small>	
<small>* Definitions and values in CMPCAP FOM v. 1.0 and CVS Field Guide</small>	



RATIONALE - Parking along Hawthorn Pkwy next to sewer pump station (pull into bridge trail and park in grass next to pump). Hike up hill and follow trail to plot (see maps).

RATIONALE - Agree with layout; original GPS pt @ (2,0), origin was shifted to fit in standard size plot. Bearing could have been shifted to avoid steep slope, but it adds an interesting element.

Vegetation:
 Canopy: Beech, Red Oak, Sugar Maple
 Mid: Beech, Sassafras, Carpinus
 Low: New York Fern, Canada Mayflower, ~~Heuchera~~
 After seedlings

OVER

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

Project Label: PCAP

Project Name: OJSC2011

Plot No.: 1176

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CLASSIFICATION	STAND SIZE	DISTURBANCES			
		type*	severity**	yrs ago	% of plot
(Fit = excellent, good, fair, poor; CONF = high, med, low)	Fit and Confidence				
Hydrogeomorphic class (WETLANDS ONLY):					
□ DEPRESSION	Fit= _____ Conf= _____	<input type="checkbox"/> >1,000 x plot size	Human		
□ IMPOUNDMENT	Fit= _____ Conf= _____	<input checked="" type="checkbox"/> > 100 x plot size	Natural		
□ RIVERINE	Fit= _____ Conf= _____	<input checked="" type="checkbox"/> 10-100 x plot size	Fire		
□ SLOPE (ground water hydrology or on a physical slope)	Fit= _____ Conf= _____	<input type="checkbox"/> 3-10 x plot size	Cut		
□ FRINGING	Fit= _____ Conf= _____	<input type="checkbox"/> 1-3 x plot size	Animal	M	O 100 Deer Browse
□ COASTAL (specify subclass)	Fit= _____ Conf= _____	< plot size	Other		
□ BOG (strongly, moderately, weakly ombrotrophic)	Fit= _____ Conf= _____				**L=low, M=med low, MH=med, H=high, VH=very high
Ohio EPA VIBI Plant Community Class (WETLANDS ONLY):					
□ FOREST	Fit= _____ Conf= _____	<input type="checkbox"/>			
□ SWAMP	Fit= _____ Conf= _____	<input type="checkbox"/>			
□ EMERGENT	Fit= _____ Conf= _____	<input type="checkbox"/>			
□ MARSH	Fit= _____ Conf= _____	<input type="checkbox"/>			
□ WET MEADOW	Fit= _____ Conf= _____	<input type="checkbox"/>			
□ OPEN BOG	Fit= _____ Conf= _____	<input type="checkbox"/>			
□ SHRUB	Fit= _____ Conf= _____	<input type="checkbox"/>			
□ SHRUB SWAMP	Fit= _____ Conf= _____	<input type="checkbox"/>			
□ TALL SH.	Fit= _____ Conf= _____	<input type="checkbox"/>			
□ BOG	Fit= _____ Conf= _____	<input type="checkbox"/>			
□ TALL SH. FEN	Fit= _____ Conf= _____	<input type="checkbox"/>			
MODIFIED NATURERESERVE CLASS*					
CODE (on separate form):	Fit= <u>poor</u> Conf= <u>med</u>				
COMMUNITY NAME:	Beech - Red Oak				
HYDROLOGIC REGIME*					
Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.)					
<p><i>Conopholis</i> is present in plot, but dead at sampling time</p> <p>Plot has a dominant canopy of Beech. Red Oak and Some Sugar Maple. Beech sprouts have had heavy browse in past years. Plot was located at the top of a ridge near a bridge trail. There was a large dead Ash just outside the plot.</p>					

CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet

Page 1 of 2

Project Label: PCAP Project name: 0/5C2011 Plot no.: 1176

Total modules: 10 Intensive modules: 4 Plot configuration: 2x5 Plot area (ha): 0.1

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

Visual est. %invasives entire site: 0



Cleveland
Metroparks
Strata - Cov. entire plot

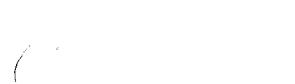
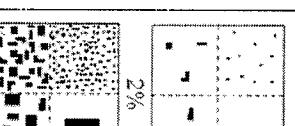
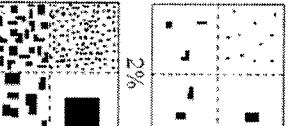
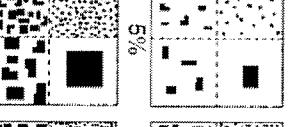
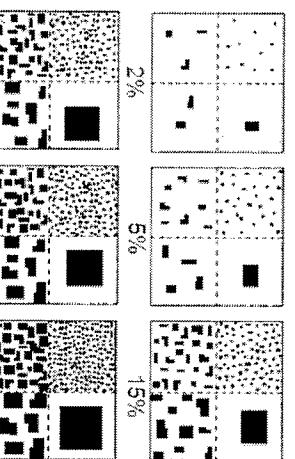
Br = Browse Level. Use cover classes to
describe amount of browse per species over
entire plot

mod	corner																		
2	4	2	2	3	4	3	2	8	4	8	2	9	4	9	2	R	R		
depth	cov	depth																	

T	S	H	(F)	(A)	Br	Species	C	Voucher #	depth	cov	depth									
7	6	5			10	<i>Fagus grandifolia</i>			4	9	4	4	8	4	4	10	4	4	10	4
6	4	2				<i>Acer saccharum</i>			4	4	4	3	2	3	2	1	2	3		
8						<i>Quercus rubra</i>			2	6	2	4	8	2	4	7	2	4	8	2
5	4	2				<i>Acer rubrum</i>			3	3	4	4	4	4	4	2	4	2	4	
5	4	2				<i>Quercus seedling</i>			4	2	2	3	2	3	2	2	3	3	2	
4	2					<i>Fraxinus americana</i>			3	2	3	3	2	2	2	4	3	1		
4	3					<i>Malathemum canadense</i>			4	2	4	2	2	2	4	2	4	2	3	
7	1					<i>Carpa cordiformis</i>			3	1										
						<i>Crataegus sp.</i>			3	1										
5						<i>Thelypteris noveboracensis</i>			4	3	4	7	1	2	2	1	3	2	2	
						<i>Lindera benzoin</i>			2	1	4	3	1	3	2	1	2	1		
5	3	2				<i>Moss sp.</i>			2	1	2	3	1	2	4	1	2	2	1	
3	2					<i>Magnolia acuminata</i>			2	3	1	2	1	3	2	1	4	1	4	
3	2					<i>Prunus serrulata</i>			1	3	1	2	1	3	2	1	3	1		
						<i>Dryopteris marginalis</i>			2	2	3	3	2	3	2	1	2	1		
						<i>Erythronium americanum</i>			1	1	1	1	1	1	1	1	1	1		
						<i>Polygonatum multiflorum</i>			1	1	1	1	1	1	1	1	1	1		
						<i>Rosa rugosa</i>			1	1	1	1	1	1	1	1	1	1		
						<i>Artemesia sp. (seedling)</i>			1	1	1	1	1	1	1	1	1	1		
						<i>Artemesia trifolia</i>			1	1	1	1	1	1	1	1	1	1		
						<i>Corex digitalis</i>			1	1	1	1	1	1	1	1	1	1		
						<i>Pilea pumila</i>														
						<i>Arctium sp.</i>														

EXAMPLES OF PERCENT OF AREA COVERED

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



cover class	% cover	midpoint
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.

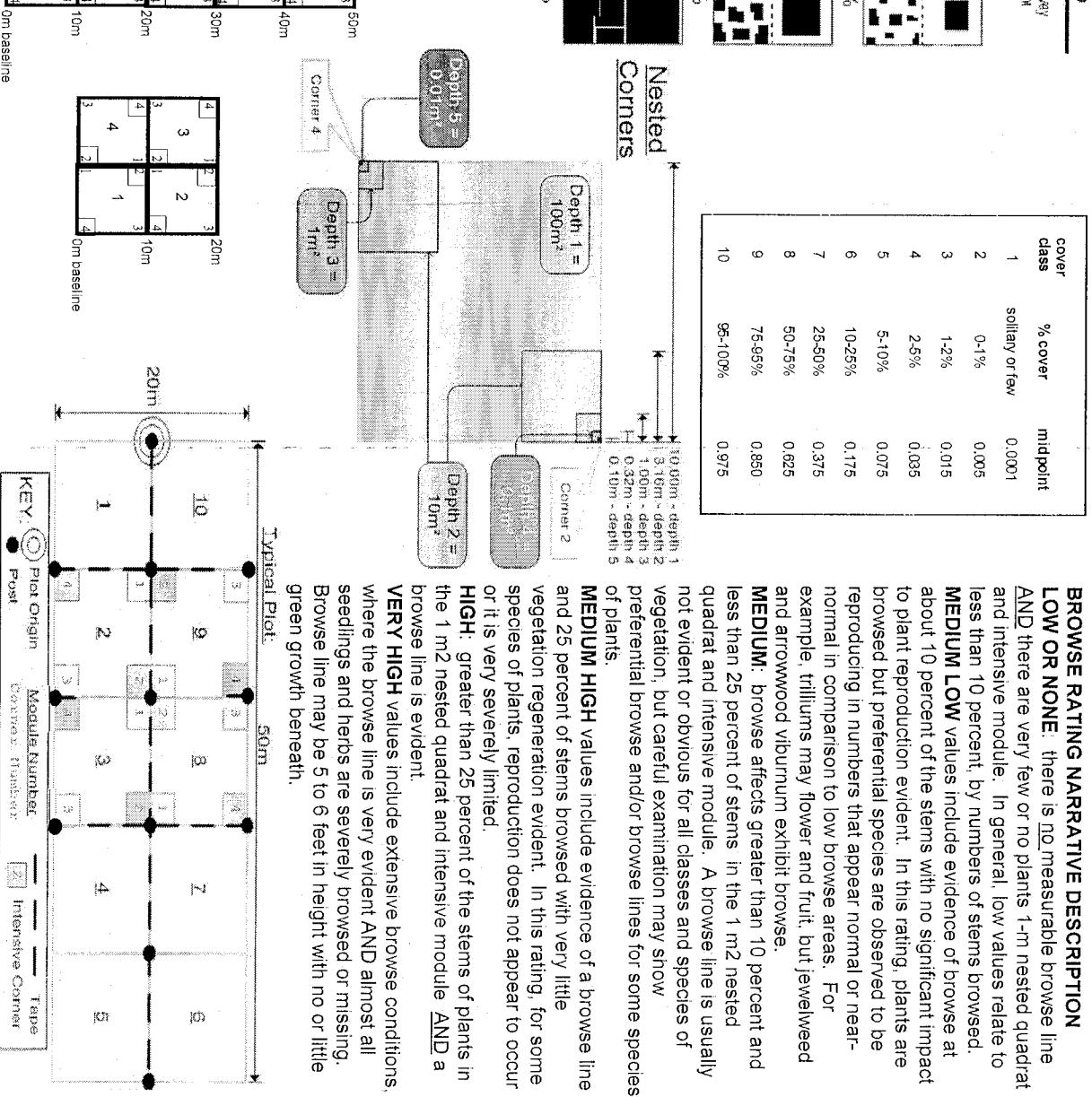
MEDIUM LOW values include evidence of browse at about 10 percent of the stems with no significant impact to plant reproduction evident. In this rating, plants are browsed but preferential species are observed to be reproducing in numbers that appear normal or near-normal in comparison to low browse areas. 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 m² nested quadrat and intensive module. A browse line is usually not evident or obvious for all classes and species of vegetation, but careful examination may show preferential browse and/or browse lines for some species of plants.

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

HIGH: greater than 25 percent of the stems of plants in the 1 m² nested quadрат 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 Species Cover Data Sheet

Project Label: PCAP

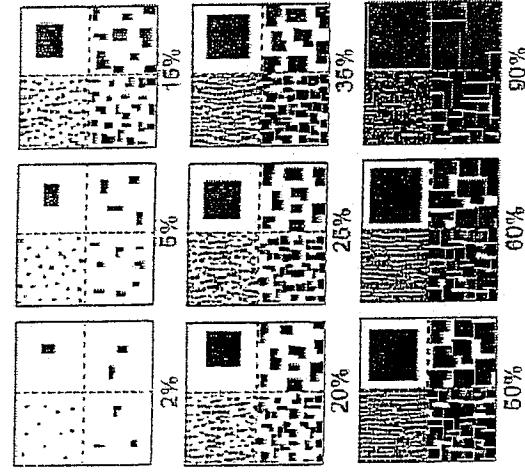
Project name: ER2204 Plot no. 1126Total modules: 10 Plot configuration: TX5Visual est. % open water entire site: —Visual est. %Invasives entire site: —Plot area (ha): 0.1Page 2 of 2

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

		Estimate for each Intensive module:										Intensive module:														
T	S	H	(F)	(A)	Br	Species					0	Voucher #	depth	cov												
1	1	16				<i>Prunus</i> sp.					3	4	3	2	8	4	8	2	9	4	9	2	R	R		
2	1					<i>Polygonatum</i> <i>acuminatum</i>					1															
1	6					<i>Rubus</i> <i>strigosus</i>					1															
1	1					<i>Padophyllum</i> <i>peltatum</i>					1															
1	1					<i>Parthenocissus</i> <i>quinquefolia</i>					1															
2	2					<i>Aster</i> 1	<i>(Perennial)</i>				1	1	1	1	1	1	1	1	1	1	1	1	1	1		
1	18					<i>Carex</i> <i>(gracillima)</i>					1															
1	1					<i>Smilax</i> <i>rotundifolia</i>					1															
1	1					<i>Viola</i> <i>pubescens</i>					2															
1	1					<i>Picea</i> sp.					1															
2	1					<i>Betula</i> <i>Allegheniensis</i> Lantz					1	2														
1	1					<i>Viburnum</i> <i>Acrifolium</i>					1															
-3	1					<i>Prosartes</i> <i>langbianum</i>					1															
1	1					<i>Ostrya</i> <i>virginiana</i>					1															
-10	1					<i>Sambucus</i> sp.					1															
2	2					<i>Solidago</i> <i>canadensis</i>					1															
1	1					<i>Cercis</i> <i>siliquastrum</i>					1															
3	1					<i>Carpinus</i> <i>cordata</i>					1															
1	1					<i>Polygonatum</i> <i>pubescens</i>					1															
1	1					<i>Fragaria</i> sp.					2															
5	1					<i>Allium</i> <i>tricoccum</i>					1															
3	1					<i>Laurus</i> <i>virginica</i>					1															
1	1					<i>Quercus</i> <i>alba</i>					1															
1	1					<i>Hamamelis</i> <i>virginiana</i>					1															
5	1					<i>Monotropa</i> <i>uniflora</i>					1															

EXAMPLES OF PERCENT OF AREA COVERED

The following graphic can be used for visualizing area elements to convey "Amount" or "Quantity". NOTE: Within any given box, each number 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.

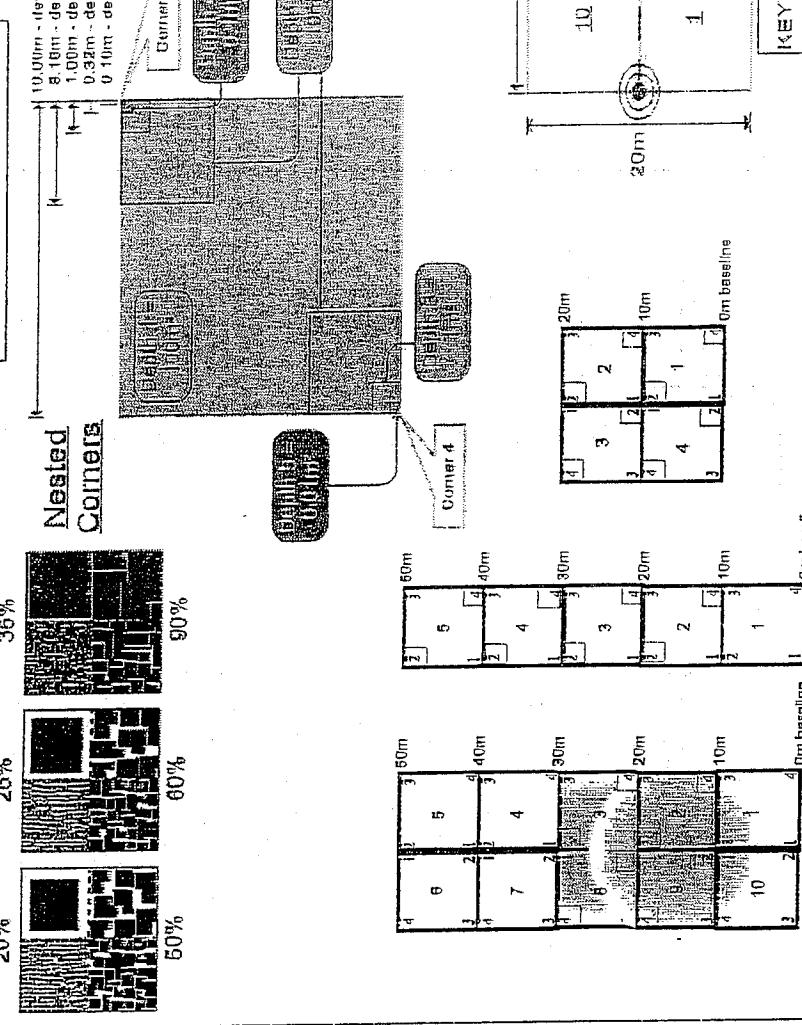
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MEDIUM HIGH values include evidence of a browse line and 25 percent of stems browsed with very little regeneration evident. In this rating, for some species of plants, reproduction does not appear to occur or it is very severely limited.

HIGH: greater than 25 percent of the stems of plants in the 1m² 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.

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6	10-25%	0.175
7	25-50%	0.375
8	50-75%	0.625
9	75-95%	0.850
10	95-100%	0.975



CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP

Project Name: OlSC 2011

Plot No.: 1176

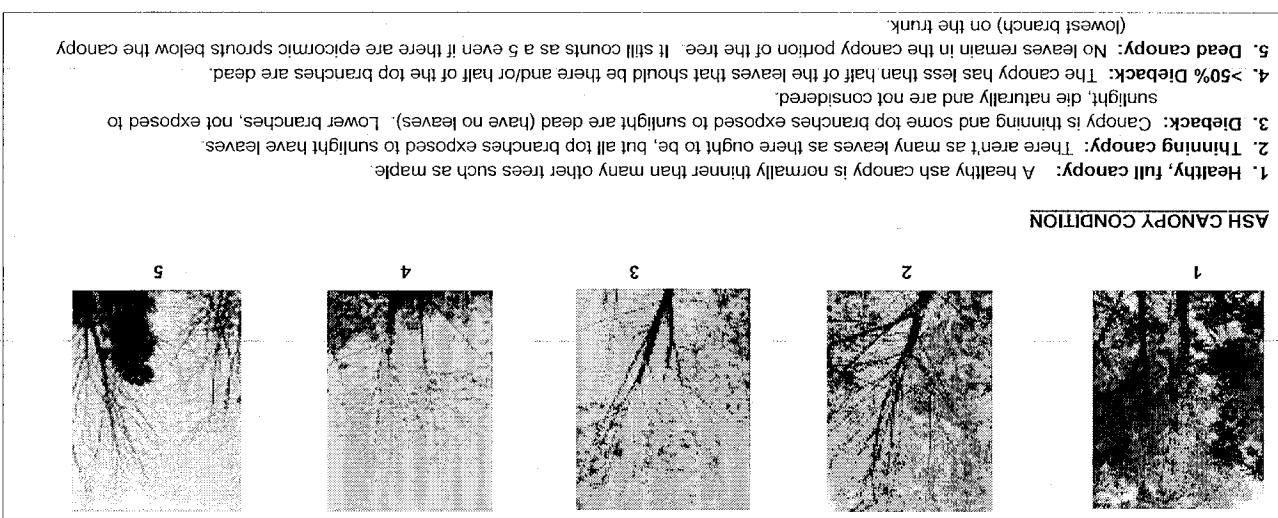
Page: 1 of 2

Fireland Metroparks

Explain subsample (additional room on back):

mod #	species	c voucher#	# stems browsed	% sub sample	# shrub	size class (cm) 0-<1	woody stems >1m										>40 (record each tree)
							1	2	3	4	5	6	7	8	9	10	
1	<i>Fagus grandifolia</i>				3	1	•			•	•						
1	<i>Fraxinus americana</i>																
1	<i>Lindera benzoin</i>				8												
1	Standing dead																
1	<i>Ostrya virginiana</i>																
1	<i>Quercus rubra</i>																
1	<i>Acer Saccharum</i>																
2	<i>Fagus & grandifolia</i>					2	•	•	•	•	•	•	•	•	•	•	66.2
2	<i>Prunus serotina</i>																
2	<i>Betula lenta</i>																
2	Standing dead																
3	<i>Acer rubrum</i>																
3	<i>Fagus grandifolia</i>																
3	<i>Acer saccharum</i>																
3	<i>Lindera benzoin</i>					1											
3	<i>Carpinus caroliniana</i>																
3	Standing dead																
4	<i>Acer saccharum</i>																
4	<i>Acer rubrum</i>																
4	Standing dead																
5	<i>Acer saccharum</i>																
5	<i>Fagus grandifolia</i>																
5	<i>Carpinus caroliniana</i>																
4	<i>Fagus grandifolia</i>																

<p>ASH CANOPY BREAKUP CONDITION (for dead trees):</p> <p>(if an ash receives a score of 5 (dead) under canopy condition it must also receive a breakup condition rank as described below)</p> <p>A: All main branches contain fine twigs (newly dead).</p> <p>B: Over 50% of main branches have fine twigs.</p> <p>C: Less than 50% of main branches have fine twigs.</p> <p>D: Stem still standing and tertiary main branches present</p> <p>E: Central stem still standing.</p>				
E	D	C	B	A



<p>DBH Measurement Rules</p>	
<p>Woody Stem Deer Browse</p> <p>Record the number of stems/plants between 0.5-1.0 meters tall that exhibit evidence of this years deer browse.</p> <p>Record using the tally system from 1 to 10</p> <p></p>	

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP

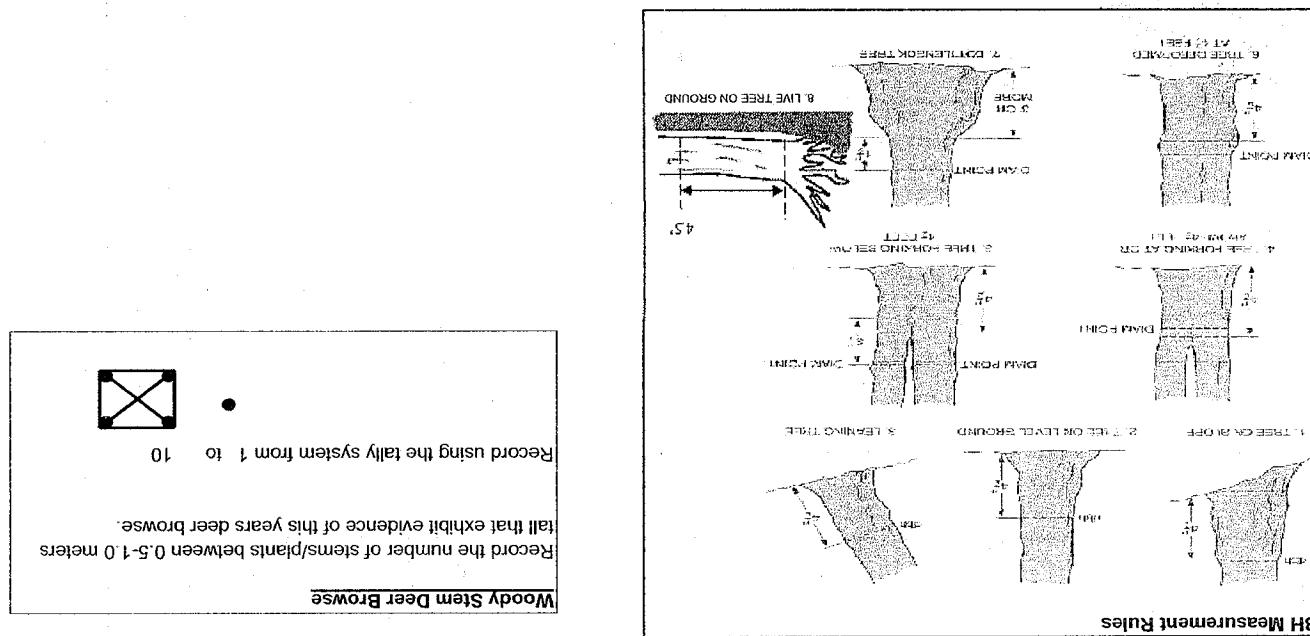
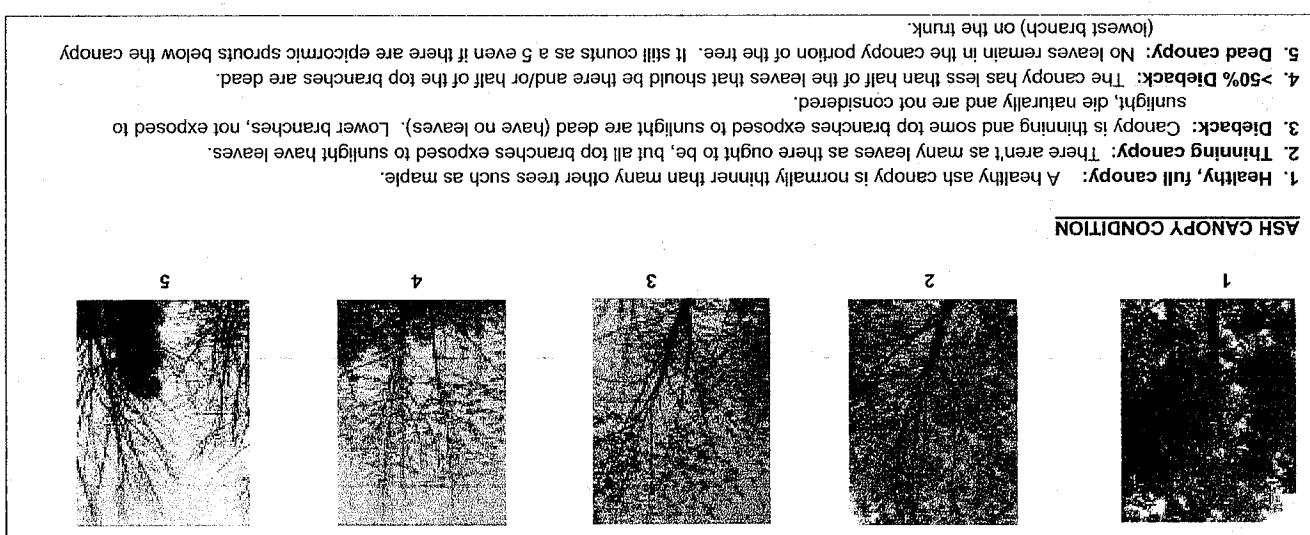
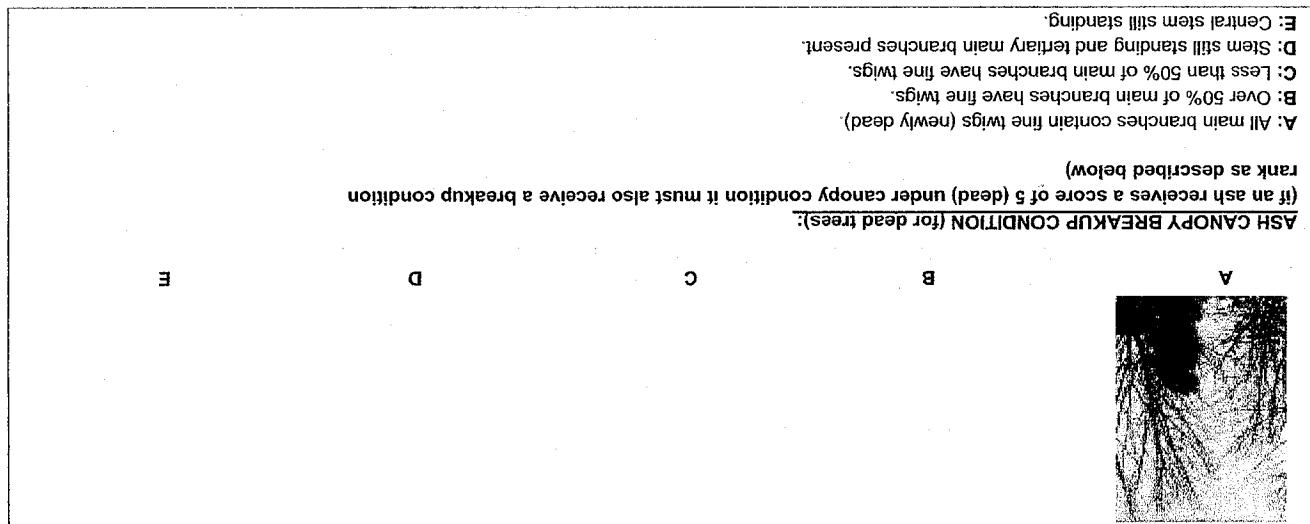
Project Name: DTRR 2011

Plot No.: 1176 Page: 2 of 2

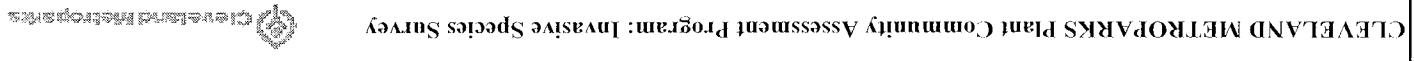
© Cleveland Metroparks

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 >1in 0-<1	size class (cm) woody stems >1in										#>40 (record each tree)
							1	2	3	4	5	6	7	8	9	10	
10	<i>Acer saccharum</i>					•	•	•	•	•							
6	<i>Hemisamia virginiana</i>					•											
6	<i>Fagus grandifolia</i>					••											
6	<i>Quercus alba</i>																
6	<i>Acer rubrum</i>																
10	<i>Magnolia acuminata</i>																
7	<i>Quercus rubra</i>																
7	<i>Acer rubrum</i>																
7	<i>Fagus grandifolia</i>					••											
7	Standing dead																
8	<i>Fagus grandifolia</i>					••	••	••	X	•	•						11.4
9	<i>Fagus grandifolia</i>					•	•	•	•	•							
9	<i>Quercus rubra</i>																
9	<i>Magnolia acuminata</i>																
10	<i>Fagus grandifolia</i>																
10	Standing dead																
10	<i>Smilax rotundifolia</i>																
10	<i>Lindera benzoin</i>																
8	<i>Smilax</i> rotundifolia																



CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey



Tier 1: Early detection/ Rapid response					
# of Plants	NE	SE	SW	NW	GPS
X: Yes					Presence
					Microstegium vimineum (Japanese stiltgrass)
					Ranunculus ficaria (violet)
					Cyperus rotundus (vine)
					Lathyrus palustris (violet)
					Ailanthus altissima (Tree of Heaven)
					Lonicera japonica (violet)
					Lytium salicaria (purple loosestrife)
					Lythrum salicaria (violet)
					Agapanthus praecox (G-cover)
					Bishopsis Podagraria (G-cover)
					Alnus glutinosa (European Alder)
					Dipsacus laciniatus (Cut-leaved Teasel)
					Rhamnus cathartica (Poisson Hemlock)
					Connium maculatum (Hedgeparsley)
					Trollius sp. (Bittersweet)
					Celastrus orbiculatus (Asian Bittersweet)
					Alnus glutinosa (European Alder)
					Elaeagnus umbellata (Autumn Olive)
					Lonicera maackii (Amur honeysuckle)
					Elaeagnus pungens (shrub)
					Pachysandra terminalis (Five-leaf Aralia)
					Euonymus fortunei (G-cover)
					Cornus alternifolia (Lily of the Valley)
					Cornus mas (G-cover)
					Coronilla varia (Crown Vetch)
					Eleutherococcus pentaphylloides (Five-leaf Viburnum)
					Pachysandra terminalis (Japanese Pachysandra)
					Philadelphus coronarius (Mock Orange)
					Pulmonaria officinalis (Lungwort)
					Rubus phoenicolasius (Wineberry)
					Osmunda cinnamomea (Yellown Flag Iris)
					Iris pseudacorus (wetland)
					Osmunda cinnamomea (Star of Bethlehem)
					Viburnum opulus var. opulus (European Cranberry)
					Viburnum plicatum (Double-flowered Viburnum)
					Viburnum plicatum (shrub)
					Alliaria petiolata (Garlic Mustard)
					Ligustrum vulgare (Common Privet)
					L. morrowii, L. tatarica (Bush Honeysuckles)
					Phalaris arundinacea (reed Canarygrass)
					Phragmites australis (wetland)
					Polygonatum multiflorum (Knotweed)
					Rosa multiflora (Glossy Buckthorn)
					Rosa rugosa (shrub)
					Typha angustifolia, T. x glauca (Cattails)
					Cirsium arvense (Canada Thistle)
					Dipsacus fullonum (Common Teasel)
					Hedysarum occidentale (Dame's Rocket)
					Vicia sativa minor (Periwinkle)

4BCM PCAP invasive species database last revised 6/23/2011 ceh

Natural Resources

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

CLEVELAND METROPARKS Emerald Ash Borer - *Fraxinus* Sheet

Project Label: PCAP

Project Name: DIREZOL

INTENSIVE MODULES ONLY TREES $\geq 10\text{CM}$ ONLY Page: 1 of 2

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PCAP Ash Tree Data Sheet Page 1_ver 2.xls last revised 6/9/2011 ceh

Plot No.: 1176 Date: 8/22/11

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

Baseline

9

8

2

3

N

*** Change intensive module numbers when necessary

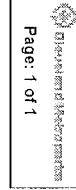
Map all ash trees $\geq 10\text{cm}$ in each module using Tree ID number

- * 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 - Plant Cover and Earth Surface
Project Label: PCAP Project Name: OJSC 2014

Plot No.: 1176

Page: 1 of 1



COVER BY STRATA % estimate using midpoints of e.g. 1, 3, 18%		
Strata	Height Range	Total Cover (%)
Tree	5 - 7	98
Shrub	0.5 - 5	28
Herb	0 - 0.5	18
(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%)	percent
Hilstosol	2
Mineral Soil	97
Gravel/Cobble*	3
Boulder***	2
Boulder	2
Bare Soil	3
Water	1
Bryophyte-Lichen	5
Road/Traffic	2
Other	0

TRAIL INFORMATION: If trail falls in plot record type and cover for each	
Type	%Cover
All Purpose	
Bridge	
Hiking sanctioned	
Boat/s unsanctioned	
Gated	
Dirt	

No trails

CROWN COVER DENSITY(METER) Make 4 readings per module facing N, S, E, W Place dot count in corresponding space (1 dot per grid square)				
Module	N	S	E	W
2	0	0	1	2
3	2	1	1	2
8	1	2	2	0
9	0	1	0	0

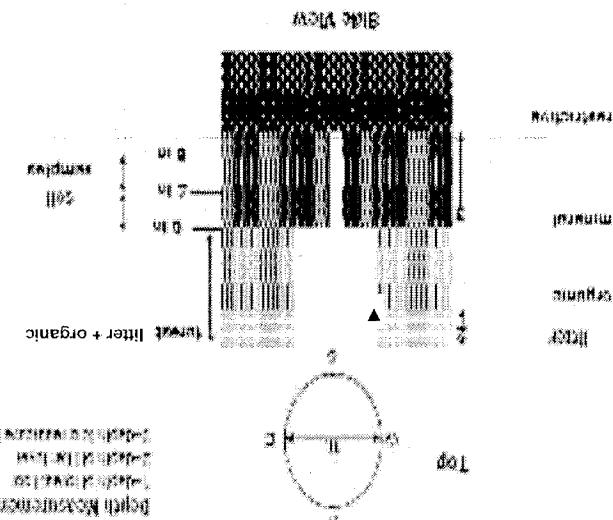
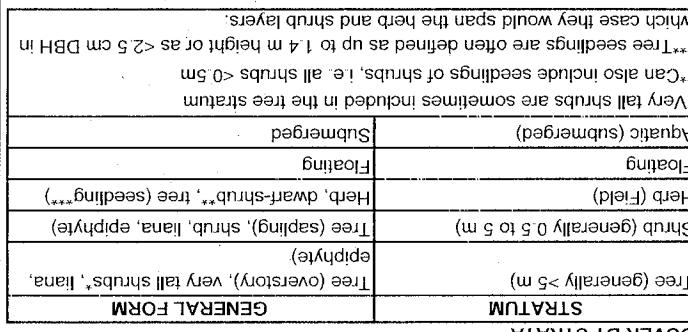
MCNAB INDICES (degrees) + for up - for down (FILLED OUT USING GIS PROGRAM - DO NOT FILL OUT IN FIELD)		
LFI*	TSI**	LFI is angle of plot to the horizon. TSI is angles formed by local slopes. For TSI measure angle from recorder eye to eye of person standing ~10 m away
+45 degrees	NNE	
+90 degrees	E	
+135 degrees	SE	
+180 degrees	S	
+225 degrees	SW	
+270 degrees	W	
+315 degrees	NW	

* Landform Index (position within landscape)
** Terrain Shape Index (site micromorphographic shape)

NOTE: tussocks and hummocks are counted in BOTH nested quadrat corners but counts are aggregated again.
macro depressions = macrotopographic depressions with module. These may extend into other modules and be counted again.
c.w.d. = course woody debris
microhab. interspers., = overall ranking of plot microtopographic heterogeneity using scale below

GENERAL FORM	STRATUM	COVER BY STRATA
Tree (generally > 5 m)	Shrub (generally 0.5 to 5 m)	Trees (> 5 m) epiphyte
Tree (overtop), very tall shrubs*, liane, epiphyte	Tree (sapling), shrub, liane, epiphyte	Hebf. (field) Horb., dwarf-shrub*, tree (seedling***)
Tree (generally 0.5 to 5 m)	Floating	Floating
GENERAL FORM	Submerged	Aquatic (submerged)
Virgin Sandstone Member	Lagan Formation	LOWER PENNSYLVANIAN
Alleghenian Coal Measures Glenwood Member	Cayuga Formation	MISCELLANEOUS
Black Hand Sandstone Member		BENTONICITE LAYER
Sandstone interval member		Organic matter
Marcellus Shale		Mineral
Beaumont Shale		Reflexivity
Doodson Shale		Glac. trace
Chagrin Member		
Ohio Shale		
Huron Member		

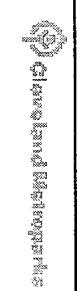
FIGURE 3-30—Generalized section of Upper Devonian strata in Ohio. This composite section represents both Lower Pennsylvanian [sandstone], the bentonitic shale, and Lower Pennsylvanian [sandstone] (see Aqueous) and Lower Pennsylvanian [sandstone]. The composite section represents both the older limestone is older to the bentonitic shale, which is older to the sandstone. The section is not to scale, but the thicknesses indicated are approximate. The section is not to scale, but the thicknesses indicated are approximate. The section is not to scale, but the thicknesses indicated are approximate. The section is not to scale, but the thicknesses indicated are approximate. The section is not to scale, but the thicknesses indicated are approximate. The section is not to scale, but the thicknesses indicated are approximate. The section is not to scale, but the thicknesses indicated are approximate. The section is not to scale, but the thicknesses indicated are approximately equal. The section is not to scale, but the thicknesses indicated are approximately equal.



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

Project Label: PCAP Project Name: OIS/2011

Plot No.: 176



Page: 1 of 1

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

Soil pit module # 3 (one per entire plot)

5 cm	matrix color	<u>10 YR 3-2</u>
mottle color	<u>none</u>	
%mottle	<u>N/A</u>	
oxid roots	<u>Y</u>	<input checked="" type="radio"/>
texture*	<u>1</u>	<input checked="" type="radio"/>
redox features**	<u>Y</u>	<input checked="" type="radio"/>
hydr cond.***	<u>I S M D</u>	

20 cm	matrix color	<u>10 YR 5-4</u>
mottle color	<u>N/A</u>	
%mottle		
oxid roots	<u>Y</u>	<input checked="" type="radio"/>
texture*	<u>1</u>	<input checked="" type="radio"/>
redox features**	<u>Y</u>	<input checked="" type="radio"/>
hydro. cond.***	<u>I S M D</u>	

Soil Collection Module	Horizon (A, B, C)
	A

Module #	C?	Corner	Corner

STANDING BIOMASS (required for emergent wetlands): collected in 0.1m clip plots (32x32 cm) from corners 1 and 3 in each intensive module. Required for VIBI-E score calculation. C? = check when collected

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

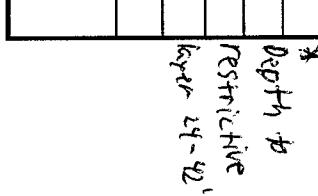
mod#	1 litter + organic depth (cm)	2 litter depth (cm)	3 restrict. depth(cm)* [WSS]	water depth (cm)	sat soil depth (cm)
2	1.25	1.75	5.4	0	>30
3	4.5	4.5	10	0	>30
3	3.75	3.75	10	0	>30
4	5.75	5.75	5.9	0	>30

Length of soil probe = 125 cm

18

*Use Web Soil Survey for #3 Restrictive layer dept.

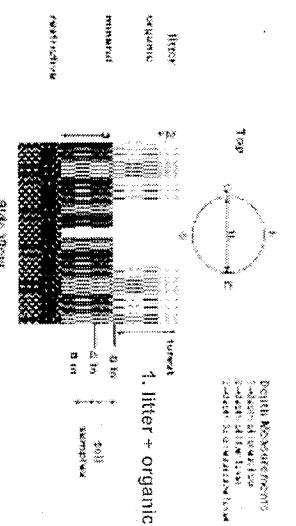
18



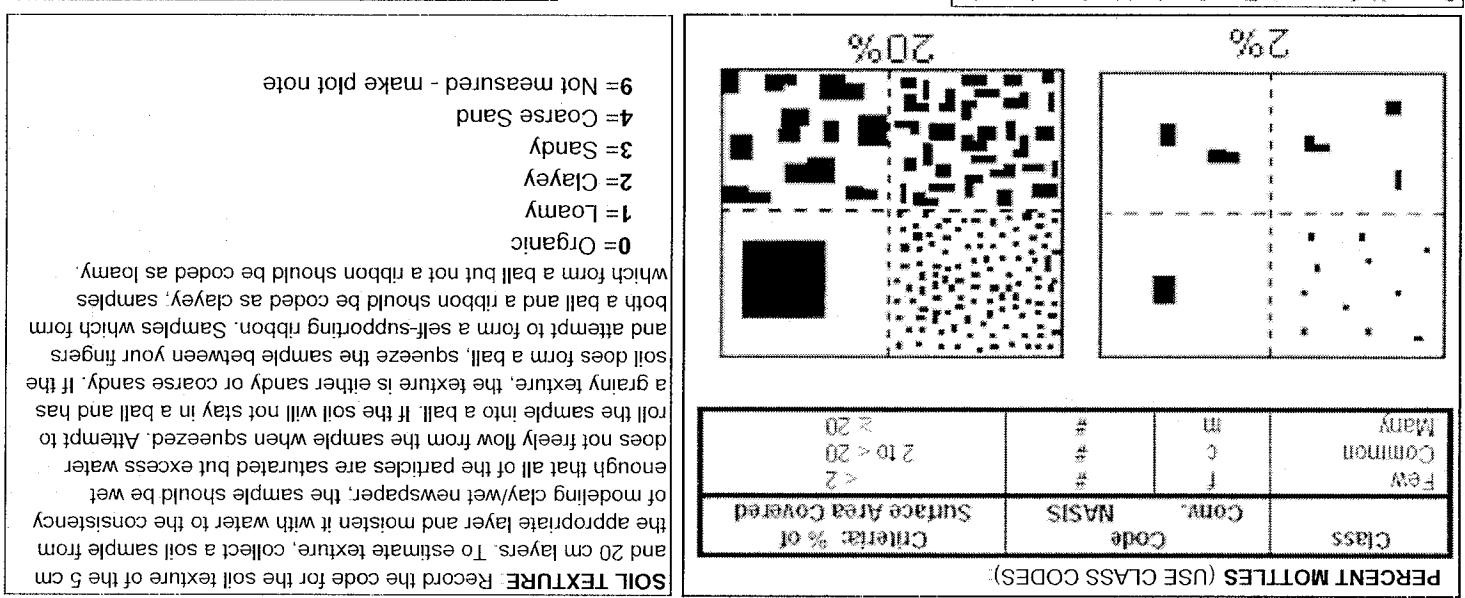
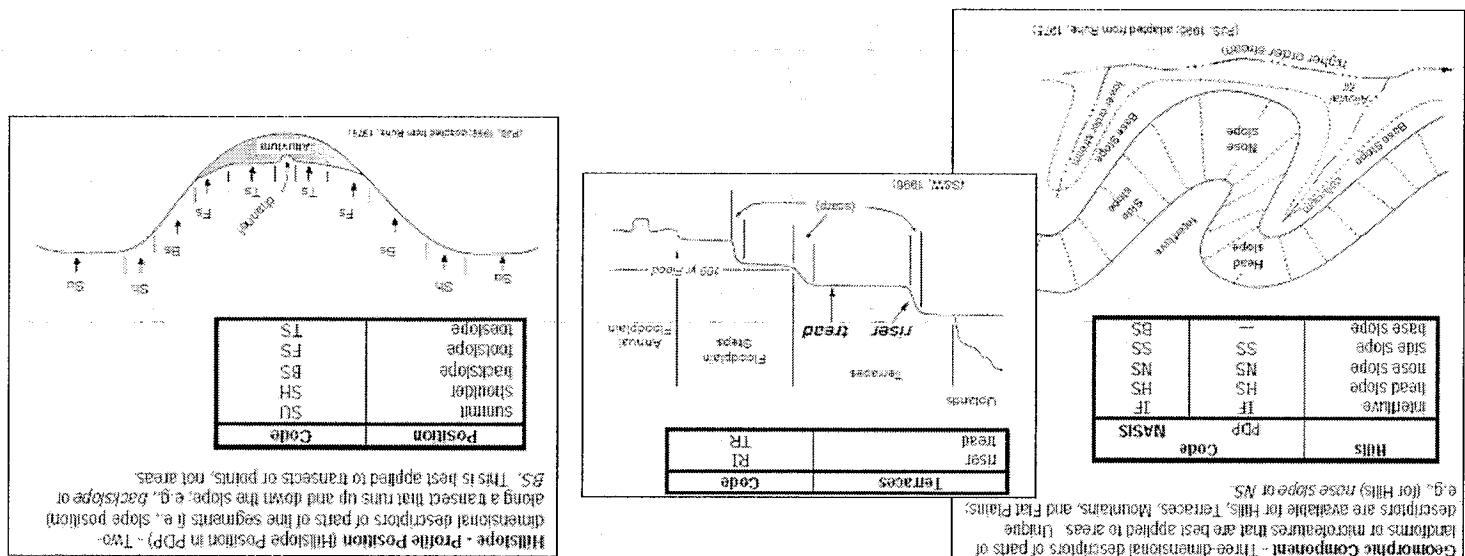
I=Indurated S=saturated M=moist D=dry
Notes: include evidence of earthworms (worm casts, middens)

No evidence of any earthworms or ~~etc.~~ castings/middens

- Excessively drained
- Somewhat excessively drained
- Moderately well dr.
- Somewhat poorly dr.
- Poorly dr.
- Very poorly dr.
- Impermeable surface



PERMANENTLY FLOODED : Water covers the land surface at all times of the year in all years. Equivalent to Cowardin's "permanently flooded".	UNKNOWN : The hydrologic regime cannot be determined from the available information.
SEMI-PERMANENTLY FLOODED (exposed <1/year): Surface persists throughout the growing season in most years. Land surface is normally saturated when water level drops below soil surface. Includes Cowardin's Intermittently Exposed and Semipermanently Flooded modifiers.	
INTERMITTENTLY FLOODED : Substrate is usually exposed, but surface can be present for variable periods without detectable flooding. Inundation is not predictable to a given season and is dependent upon highly localized rain storms. This modifier was developed for use in the arid West for water regimes of Playa lakes, intermittent streams, and dry washes but can be used in other parts of the U.S. where appropriate. This modifier can be applied to both wetland and non-wetland situations. Equivalent to Cowardin's seasonal periodicity. Inundation is usually exposed, but surface can be present for variable periods without detectable flooding.	
TEMPORARILY FLOODED : Surface characterizes flood-plain levees and lower terraces. Equivalent to Cowardin's Temporary.	
OCCASIONALLY FLOODED : Surface water present for brief periods during growing season, but not in most years. Often characterizes flood-plain uppers.	
PERMANENTLY/SEMI-PERMANENTLY SATURATED : Dry less than once per year. Surface water is seldom present, but substrate is saturated to surface for extended periods during the growing season. Equivalent to Cowardin's Saturated modifier.	
INTERMITTENTLY/SEASONALLY SATURATED : Dry at least once per year. Surface water is present for brief periods during growing season, but substrate is saturated to surface for extended periods during the growing season. Equivalent to Cowardin's Seasonally Saturated modifier.	
UPLAND : Not a wetland. Very rarely flooded	



FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (initial): _____

Site ID: PCAP SC 8/11/76

DATE: 08/11/2011

Location:

AA Center O N O S O E O W

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

O Plot 1 O Plot 2 O Plot 3

Buffer Natural Cover Strata

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

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

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

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

Residential and Urban Stressors				Hydrology Stressors				Agricultural & Rural Stressors							
Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	
Road - gravel	○	○	○		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 (SHEETFLOW)	○	○	○		Gravel Pit	○	○	○		
Other: _____	○	○	○		Other: _____	○	○	○		Irrigation	○	○	○		
Other: _____	○	○	○		Other: _____	○	○	○		Other: _____	○	○	○		

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

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

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

2428168304

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

Reviewed by (initial): _____

Site ID: PCAP SC 1176

DATE: 08/05/2011

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

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

PLOT COORDINATES

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

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

Location of coordinates (choose one):

Flag

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

Latitude North

41 . 41.721

Longitude West

081 . 427.55

Use Decimal Degrees; NAD83

Flag	Comments

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

Reviewed by (initial): _____

Site ID: PCAP SC 1176

DATE: 08/05/2011

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

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

PLOT COORDINATES

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

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

Location of coordinates (choose one):					Flag
<input type="radio"/> AA CENTER	<input type="radio"/> N3	<input type="radio"/> S3	<input type="radio"/> E3	<input checked="" type="radio"/> W3	<input type="radio"/> Nearest practicable location (flag and comment below)
Latitude North			41 41 68.4	Longitude West	
			081 41 29.49		
Use Decimal Degrees; NAD83					

Flag	Comments

7966623548

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

Reviewed by (initial): _____

Site ID: PCAP SC 1176

DATE: 08/05/2011

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

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

PLOT COORDINATES

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

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

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

Flag _____

Latitude North 41.41805 Longitude West 0.8142781

Use Decimal Degrees; NAD83

Flag	Comments

7966623548

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

Reviewed by (initial): _____

Site ID: PCAP SC 1176DATE: 08/05/2011 Confirm a filled data bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble

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

PLOT COORDINATES

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

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

Location of coordinates (choose one):

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

Flag

Latitude North 41.41597 Longitude West 081.41735

Use Decimal Degrees; NAD83

Flag	Comments

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (initial): _____

Site ID: PCAP SC 1176

DATE: 08/05/2011

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 →

 Plot 1 Plot 2 Plot 3

Buffer Natural Cover Strata

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

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

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

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

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

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

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

2428168304

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

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

Reviewed by (initial): _____

Site ID: PCAP SC 1176DATE: 08/05/2011**(*) Confirm a filled data bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble**

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

PLOT COORDINATES

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

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

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

Flag

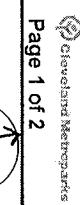
Latitude North 41.41.72.9Longitude West 0.81.42.58.0

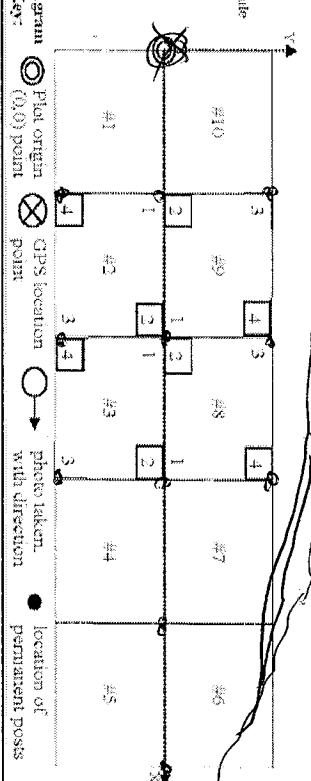
Use Decimal Degrees; NAD83

Flag	Comments

7966623548

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

 Cleveland Metroparks
Page 1 of 2

GENERAL INFORMATION		LOCATION	
<u>Project Label:</u> PCAP		<u>State:</u> OH	County:
<u>Project Name:</u>		Quadrangle:	
<u>Plot No.:</u> 1176		Local Place Names:	
		Landowner:	
		X-axis Bearing of plot: [90] °	
Date (mm/dd/yyyy): / /		End date (if > 1 day): / /	
■ Level 5 (nested corners sampled)			
Party		Role**	
Plot leader		If data not public why?	
* Roles: Co-leader, Asst. Guide, Owner, Taxonomist etc.		Source of coordinates <input type="checkbox"/> MAP <input checked="" type="checkbox"/> GPS	
PILOT NOT SAMPLED:		GPS location in plot x=0 to 5, y=-1,0,+1: x = ○ y = ○ (base of plot x=0, y=0)	
□ Perm. water □ Paved □ Slope □ Safety			
SAMPLING QUALITY*			
Effort Level: □ Very thorough □ Accurate □ Hurried		subjective evaluation of how much effort put into sampling. Hurried plots may still provide good data.	
TAXONOMIC ACCURACY			
high	modera.	low	not sampl
vascul.			n/a
bryo			
lichen			
TAXONOMIC STANDARD			
<u>Authority:</u> G&C		Pub Date: 1998	
Minimum required fields in Bold and Underlined			
<p>*Definitions and values in CMPCAP FOM v. 1.0 and CVS Field Guide</p> <p>OVER</p>  <p>The map shows a rectangular plot divided into four main quadrats (1, 2, 3, 4) labeled #1 through #4. Nested within these are smaller quadrats, some labeled with numbers like 1, 2, 3, 4, and others with letters like A, B, C, D. A central point is marked with a circle and labeled 'GPS location'. A compass rose indicates North. A scale bar at the bottom right shows distances from 0 to 50 meters.</p>			

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet



Project Label: PCAP

Project Name:

Page 2 of 2

Plot No.: _____

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Cleveland Metroparks

CLASSIFICATION

(FIT = excellent, good, fair, poor; CONF = high, med, low)

Hydrogeomorphic class (WETLANDS ONLY):

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

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

- | | |
|---|---|
| MODIFIED NATUREERVE CLASS*:
CODE (on separate form):
COMMUNITY NAME:
LANDFORM TYPE*: | SALINITY*:
<input type="checkbox"/> Saltwater
<input type="checkbox"/> Brackish
<input type="checkbox"/> Fresh
<input type="checkbox"/> Upland (n/a) |
|---|---|

STAND SIZE

Fit and Confidence

- FIT= Conf=

- >1,000 x plot size
- >100 x plot size
- 10-100 x plot size
- 3-10 x plot size
- 1-3 x plot size
- < plot size

- | | |
|--|--|
| DRAINAGE*
<input type="checkbox"/> Excessively drained
<input type="checkbox"/> Somewhat excessively drained
<input type="checkbox"/> Well drained
<input type="checkbox"/> Moderately well dr.
<input type="checkbox"/> Somewhat poorly dr.
<input type="checkbox"/> Very poorly dr.
<input type="checkbox"/> Impermeable surface | HYDROLOGIC REGIME*
<input type="checkbox"/> Upland (seldom flooded)
<input type="checkbox"/> Intermittently flooded
<input type="checkbox"/> Seasonally saturated (seldom flooded)
<input type="checkbox"/> Permanently flooded
<input type="checkbox"/> Temporarily flooded |
|--|--|

DISTURBANCES

type* severity** yrs ago % of plot description

- | | |
|--|--|
| <input type="checkbox"/> Human
<input type="checkbox"/> Natural
<input type="checkbox"/> Fire
<input type="checkbox"/> Cut
<input type="checkbox"/> Animal
<input type="checkbox"/> Other | |
|--|--|

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

Current Land Use:

Former Land Use:

- | | |
|---|---|
| <input type="checkbox"/> Current Land Use:
<input type="checkbox"/> Former Land Use: | <input type="checkbox"/> Current Land Use:
<input type="checkbox"/> Former Land Use: |
|---|---|

Additional notes & diagrams:

(Representativeness of plot to the stand, successional status, maturity, etc.)

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

Park along Hwthr Pkwy near Sewer Management Area
See Map. There is enough room on the Bridle trail
to park!

