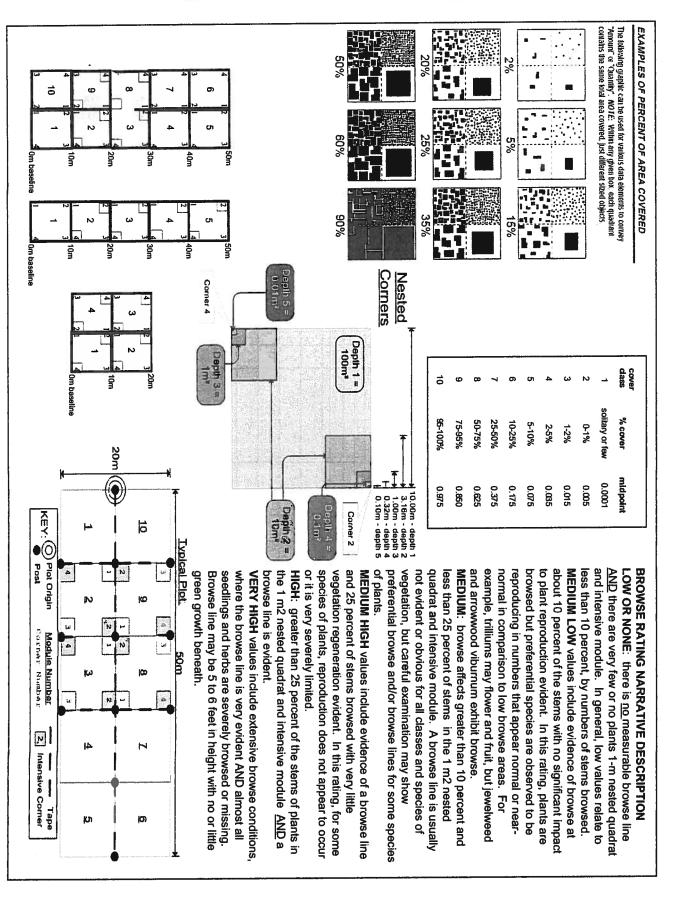
	PCAP PCAP	Plot No	: 1146 Date Sampled: 7-14-11 Lead: Fysic
			Comment required if item answer is NO
Parking/Access outsi	de of Park Boundaries	Y (D)	If yes, write details in Comments section below
Field journals compl	eted	Y N	
Site sketch made on		A) N	
Check cover page	X-axis Bearing of plot recorded	(Y) N	
	GPS coords. Recorded	N	
	North direction recorded	(Y) N	
	Photographs taken?	AT N	
Plot No Date agreer		(Y) N	
Header data complete		N (V)	
	ed in all Intensive modules	W N	
Browse Level By Sp		(Y) N	
Woody stem quality		W N	
invasive plant quality		N N	
Ash trees mapped	COME OF CHECK	W N	
· · · · · · · · · · · · · · · · · · ·	firm course type		
Cover by Strata? (cor			
	d with matching plot #	-	Ţ'
	datasheet with initials and number	1 7 7 "	
Vouchers labeled on	collection bag	N N	
Pink flags removed		N	
Data sheet QA before		N	
Common equipment	returned to tub.	Y N	
Data sheets scanned?		7/15	Enter date to left
final data sheets scar		8-23-11	Enter date to left
Buffer Widths measu	red?	Ø N	
Web Soil Survey		Ø N	
oucher Location	Refrigerator	Y N	
# vouchers collected)	Press (#)	<u> </u>	Enter number to left
SRE 448-	Drier	Y N	
451	Identified	(Y) N	
	Mounted	YN	
	Thrown away	Y N	
	tion: Is plot sampleable?		
√2 Yes	Original GRTS point is sampleable		
□ No	Original GRTS point lands in a non-s		ill in category below)
	Point falls in a water (i e nver la		
	☐ Managed mowed area (i.e golf c ☐ Paved area (i.e parkinglot, road)	ourse, picnic area, rigi	it-of-way)
	Unsafe to sample (i e steep slope)	<u> </u>	
	□ Other		

SAMPLING QUALITY* □ Perm. water □ Paved □ Slope PLOT NOT SAMPLED: GENERAL INFORMATION **CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet** Minimum required fields in Bold and Underlined bryo vascul. Effort Level: TAXONOMIC ACCURACY Hurried TAXONOMIC STANDARD Accurate Project Label: PCAP √Very thorough * Roles: Co-leader, Asst., Guide, Owner, Taxonomist, etc Date (mm/dd/yyyy): 7 /14/8011 nd date (if > 1 day): roject Name: 01 月た301 Intra-ravinous JUNTOT MUND-Level 4 (no nested corners sampled) Level 5 (nested corners sampled) high, G&C modera. may still provide good sampling. Hurried plots how much effort put into subjective evaluation of Pub Date: Plot leader low Sot assist oils / Wastu □ Safety □ Other not smpl n/a 1998 ■ Lat/Long □ UTM □ StatePlane GPS location in plot x=0 to 5, y=-1,0,+1): Source of coordinates

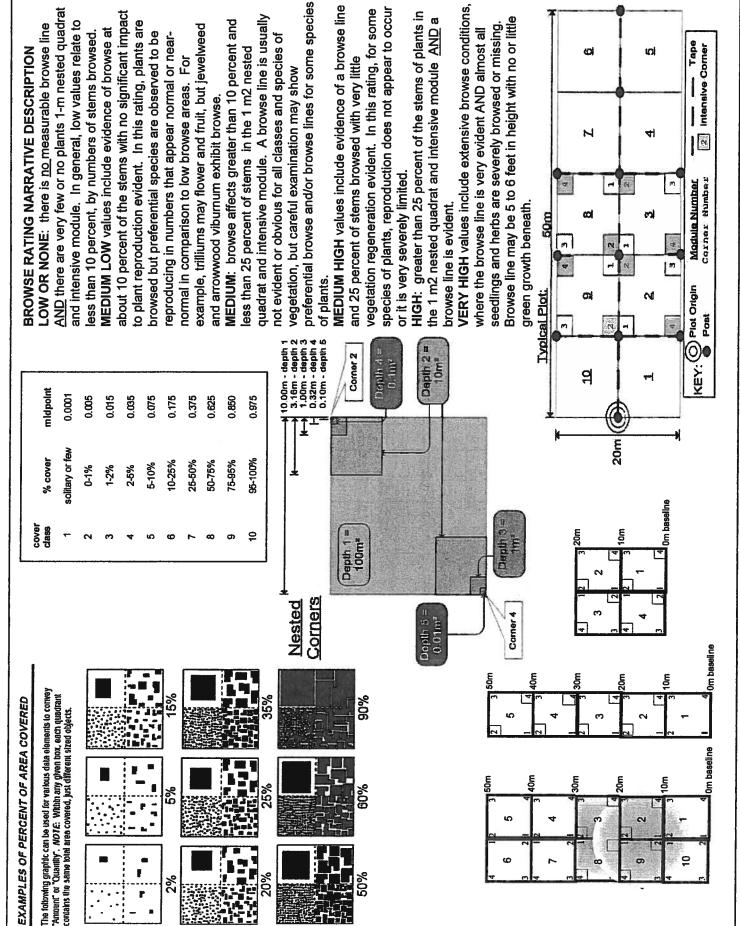
MAP □ Fuzz 100m □ Fuzz 250m □ Fuzz 500m Check one: & Public data C Private Data Quadrangle: Nest State: OH Photo Nos.: (2-1073 Camera No.: Stems present Plot size stems: ☐ Stems not sampled on this plot ☐ Stems absent Plot size for cover data: O. / GPS File Name: Datum: ■ NAD83/WGS84 □ NAD27 □ Other (specify) If data not public why? Reason: Data Confidentiality: Landowner: CM Local Place Names: Mardens LOCATION Intensive modules: 2, 3, 8, 9 Depth: (1-5): Coord. Accuracy: wm n ft Coordinate system: Longitude: OS)。 カリノア atitude: *Definitions and values in CM PCAP FOM v. 1.0 and CVS Field Guide O y = O (base of plot x=0, y=0)X-axis Bearing of plot: 41.20650 Homestrad County: Modina ■ deg 🗆 deg min Coord. Units moft o (ha) ■ GPS · ST (hectares) Voe Cher: Beach, Busin Maple, Tulip, Basswaw Rud Oak, Ash, Hickory Rationale CRTS of ☐ Transect component ☐ Systematic (grid) ☐ Capture specific feature ☐ Other NOTES: Include Layout (any unusual shape details), Location (directions and landscape Location: Perle at Wardens Honostoad

Halk 2500m down the slopeto plot Plot placement: Layout: OXS content), Rationale (why here), and Veg Characterization (description of community, dominants, strata, BROWSE). Additional notes in space on back. Diagram Plot origin GPS location Key: (0,0) point point Bud: Maple, Ostrya, Spice bush #10 under: Secless, geranings Christmus tern #1 ☐ Representative ♥ GRTS ☐ Random ☐ Stratified Random #5 #5 photo taken, with direction 12 # #7 (Picturelundfilatespeeks Page 1 of 2 location of permanent posts OVER #5 #6

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet Project Label: PCAP Project Name()()	Assessment Progran	n - Background Data Sheet Project Name⊖(/┤) /	Sheet	001		Plot No.:	Plot No.: 1/46 Page 2 of 2	N *
CLASSIFICATION		STAND SIZE	DISTU	DISTURBANCES				
(FIT = excellent, good, fair, poor; CONF = high, med, low)	Fit and Confidence		type*	severity** yrs ago % of plot description	yrs ago	% of plot	description	<u> </u>
Hydrogeomorphic class (WETLANDS ONLY):		□ >1,000 x plot size	Human					L
n DEPRESSION	Fit=Conf=	□ > 100 x plot size	Natural					L
□ IMPOUNDMENT □ Beaver □ Human	Fit=Conf=		Fire					1
□ RIVERINE □ Headwater □ Mainstem □ Channel	Fir=Conf=	□ 3-10 x plot size	Cut					
□ SLOPE (ground water hydrology or on a physical slope)	FireConf=	□ 1-3 x plot size	Animal	3	b	100	Down Browse	
□ FRINGING □ Reservoir □ Natural Lake	Fit=Conf=	□ < plot size	Other					1
□ COASTAL (specify subclass)	Fit=Conf=		**L=low	ML=med low	, M=med,	MH=med	**L=low, ML=med low, M=med, MH=med high, H=high, VH=very high	<u> </u>
□ BOG (strongly, moderately, weekly ombrotrophic)	Fit= Conf=		Current	Current Land Use:	arle			<u>L</u>
Ohio EPA VIBI Plant Community Class (WETLANDS ONLY):	NLY):		Former l	Former Land Use:	UNK	100		1
⊓ FOREST □ swamp forest □ bog forest □ forest seep	Fit=Conf=		HYDR	HYDROLOGIC REGIME*	EGIMI	*		<u> </u>
□ EMERGENT □ marsh □ wet meadow □ open bog	Fit=Conf=	SALINITY*	the Upland	to Upland (seldom flooded)	ed)		Intermittently flooded	
□ SHRUB □ shrub swamp □ tall sh. bog □ tall sh. fen	Fit= Conf=	□ Saltwater	n Intermi	□ Intermittently/seasonally saturated	ılly saturat	ed	□ Semipermanently flooded	
MODIFIED NATURESERVE CLASS*	わりつ	Brackish	(seldor	(seldom flooded)		,	□ Permanently flooded	
CODE (on separate form):	Fit= Cont=	n Fresh (n/a)	(dry <	(dry <1/yr, seldom flooded)	manent. sa ooded)	iturated	☐ Tidal/Seiche flooded daily☐ Tidal/Seiche flooded monthly☐	
COMMUNITY NAME: MUXBEL FOILST		(by default unless plot is a Occasionally flooded (<1/yr) wetland)	Occasi	Occasionally flooded	(<1/yr)		☐ Tidal/Seiche flooded irregular	
							□ Unknown	L
HOMOGENEITY	Additional notes & diagr	Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.	of plot to	the stand, succ	essional st	atus, matur	ity, etc.)	
□ Compositional trend across the plot	Yery mix	ed plut .	4 201	6461	4	ano	Very mixed plot - a variety of camppy. The plot is	•
a Conspicuous inclusions	on the	drainage o	4	aving	2001	STAOR	5 from Spach, Muc) Madi C Mupo
□ Irregular/pattern mosaic	1, 1, 1, 1		<u>}_</u>		7	2000	+ the the are	
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	(}	-				.,



CLEVELAND ME	CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet	nent Program Spec	es Co	Ver	Data	She	*									Pag	Page 2	Q	60		- 1
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		%unveg. ground (bare soll)	-		Ц		-1		羅		-		7					響		数	1EW)
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preferential browse and/or browse lines for some species MEDIUM HIGH values include evidence of a browse line VERY HIGH values include extensive browse conditions, AND there are very few or no plants 1-m nested quadrat vegetation regeneration evident. In this rating, for some species of plants, reproduction does not appear to occur about 10 percent of the stems with no significant impact HIGH: greater than 25 percent of the stems of plants in quadrat and intensive module. A browse line is usually the 1 m2 nested quadrat and intensive module AND a Browse line may be 5 to 6 feet in height with no or little and intensive module. In general, low values relate to to plant reproduction evident. In this rating, plants are MEDIUM: browse affects greater than 10 percent and **-OW OR NONE**: there is no measurable browse line example, trilliums may flower and fruit, but jewelweed seedlings and herbs are severely browsed or missing. MEDIUM LOW values include evidence of browse at where the browse line is very evident AND almost all browsed but preferential species are observed to be ess than 10 percent, by numbers of stems browsed. reproducing in numbers that appear normal or nearnot evident or obvious for all classes and species of less than 25 percent of stems in the 1 m2 nested **BROWSE RATING NARRATIVE DESCRIPTION** Ø Intensive Comer in and 25 percent of stems browsed with very little normal in comparison to low browse areas. For vegetation, but careful examination may show and arrowwood viburnum exhibit browse. N 4 7 or it is very severely limited. Carner Number Module Number browse line is evident. green growth beneath. 8 of plants. Plot Origin Typical Plot: (CO N Post 4 N 10 00m - depth 1 3.16m - depth 2 1.00m - depth 3 0.32m - depth 4 0.10m - depth 5 0 Depth 2 = Corner 2 10m2 0.1m² KEY 임 midpoint 0.0001 0.015 0.035 0.850 0.005 0.075 0.175 0.375 0.625 0.975 20m solitary or few % cover 10-25% 75-95% 25-50% 50-75% 1-2% 5-10% 95-100% 0-1% 2-5% 0m baseline Depth 3 = cover Depth 1 = 100m² 5 Corners Nested Depth 5 = 0.01m² Corner 4 veet Back Page_ver 1.3.ppt 0m baseline ê 303 The following graphic can be used for various data elements to convey 'Amount' or 'Quantity'. MOTE: Within any given box, each quadrant contains the same total area covered, just different sized objects. 35% %06 EXAMPLES OF PERCENT OF AREA COVERED ine 40m 30m 20m M NRIZO10-023 -S ဖ 20% 2% r

mod# CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet Ä 14 T N Acc Saccharon Osteyn Vilonniana Ostrya Virgimiana Tilly american Explain subsample (additional room on back): Stending dead Acer Sacchacon Aces sacchallom Grya God Grmis +10x1105 SP Acce Sacherum Bopulus grandidenteta Prisons Secotion Carya Cord, form.s Acor Sacracry Standing day Hribdendres toliphera Fraxinus So. Ginadendon tohoitem Populus grandalata Licial condion tolipiteras Stending doad Standing draw tagus yrounditoliu predictional solvery Project Label: PCAP voucher# # stems 0.5-1m browsed or super % sub sample Project Name: (2) +(1 20) (shrub clumps size class (cm) woody stems >1m 7 9 0 1-<2.5 X 2.5-<5 Plot No .: 1146 5-<10 10 - <15 15 - <20 20 - <25 Page: 25 - <30 30 - <35 으 © Gleveland Metroparks 0 35 - <40 ō 67.6, 9.65 44,3 6.50 >40 (record each tree) 52.3

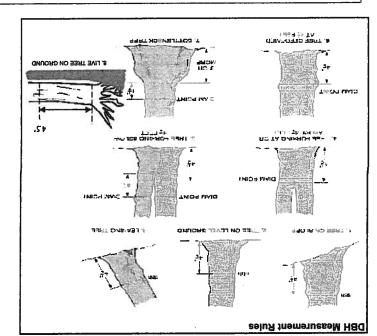
tail that exhibit evidence of this years deer browse. Record the number of stems/plants between 0.1-2.0 meters

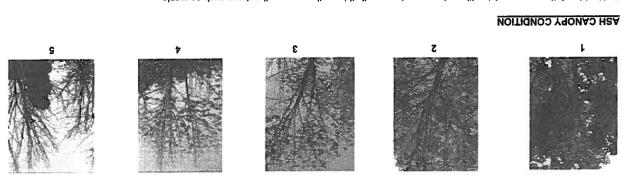
Record using the tally system from 1 to

Woody Stem Deer Browse









- 2. Thinning canopy: There aren't as many leaves as there ought to be, but all top branches exposed to sunlight have leaves. 1. Healthy, full canopy: A healthy ash canopy is normally thinner than many other trees such as maple.
- 3. Dieback: Canopy is thinning and some top branches exposed to sunlight are dead (have no leaves). Lower branches, not exposed to
- sunlight, dle naturally and are not considered.
- 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 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.

Э

(lowest branch) on the trunk.



3

a

(if an ash receives a score of 5 (dead) under canopy condition it must also receive a breakup condition ASH CANOPY BREAKUP CONDITION (for dead trees):

8

rank as described below)

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

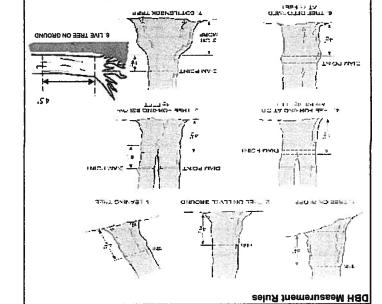
	772	CLEVELAND METROPARNS Flant Community Assessment Program Natural Woody Stem Data Sneet	2	ommunity ,	4558SSII	ient Proj	yram n	latural v	vooay s	tem Da	ta sneet	7				_	(Clevel:	(P) Gleveland Metroparks
		Project Label:		PCAP		Project	Name:	Project Name: 01 HI 2011	1106		Plot No.: 1/	1140		Page:	4	으,	Li	
		Explain subsample (additional room on back):	n ba	ck):								;						
								size class (cm) woody stems >1m	(cm) wood	ly stems >	1 m							
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Woody Stem Deer Browse

tall that exhibit evidence of this years deer browse. Record the number of stems/plants between 0.1-3.0 meters

Record using the tally system from 1 to



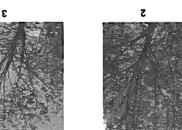


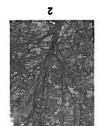




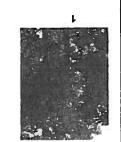
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(lowest branch) on the trunk.



3

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

8

rank as described below)

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- B: Over 50% of main branches have fine twigs.
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Epplain subsequent (additional aroun on back): POAP Project dates (cm) track) Poaks Stable Poaks	_	CLE	VELAND METROPARKS PI	ant	Community ,	Assessm	ent Pro	gram N	atural V	Voody S	tem Dat	a Sheet					4	7	
Equity authorized Control Cont			Project Labe	<u>ir</u>	PCAP		Project	Name:	S IFF	2011	_	ot No.:	1146		Page:	W		しいewela	na wearbeams
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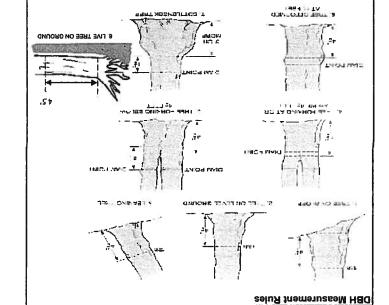
Woody Stem Deer Browse

tall that exhibit evidence of this years deer browse. Record the number of stems/plants between 0.1-6.0 neetween

Record using the tally system from 1 to





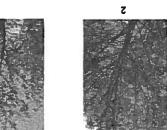




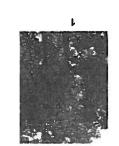


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NOITIQUODY CONDITION

- 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.
- sunlight, die naturally and are not considered. 3. Dieback: Canopy is thinning and some top branches exposed to sunlight are dead (have no leaves). Lower branches, not exposed to
- 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 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.

(lowest pranch) on the trunk.



3

(if an ash receives a score of 5 (dead) under canopy condition it must also receive a breakup condition ASH CANOPY BREAKUP CONDITION (for dead trees):

8

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 tertlary main branches present.
- E: Central stem still standing.

NRKS Plant Comm	y Assessment Progr	am - Plant Cover an	nd Earth Surface		\$	141		
rioject Catali: FOR Fig	Project Name: Of 114 COL				Plot No.:	IL		
							TRAIL INFORMATION: If trail fails	٦
COVER BY STRATA(% estimate using midpoints of 5 ex: 3, 8, 13, 18%)	EARTH SU	EARTH SURFACE & GROUND COVER	COVER				in plot record type and cover for each	
Strata (m) Total Cover (%)	Underlying	Underlying Earth Surface* Gru	Ground Cover	 			Type %Caver	
7.5	(Sum = 100%)	percent	(Each \le 100%)	percent			Purpose	
Strub 05.5 18	Histosol	ø	Coarse Woody Debris***	13			ս Bridle	250
Herb C 5	Mineral Soil	98 Fin	Fine Woody Debris****	8			O Hiking sanctioned	Time
(Floating)*	Gravel-Cobble*	_	er	93			a Bootleg unsanctioned	3
(Aquatic)**	Boulder**	©.	Duff (Ferm. + Humus)	Ø			u Gravel	
 rooted and floating or slightly emersed 	Bedrock		Bryophyte-Lichen	3			□ Deer	_
** submersed, most plant mass below surface	· Gravel-Cobi	Gravel-Cobble = 1/16 to 10 in Water	ter	Ø.				İ
SEE BACK OF PAGE FOR "TYPICAL"	**Boulder = > 10 in		Bare Soil	æ				
STRATA DESCRIPTIONS, STRATA	*** >5 cm in diameter		Road/Trail	Ø			CROW	CROWN COVER (DENSI
CAN VARY BY COVER TYPE.	**** <5 cm in diameter	diameter Other	er	Ø			4 readin	4 readings per module facing
Remember: In a standard 2x5 plot each module = 10% cover	dard 2x5 plot each m	odule = 10% cover					(4 dots)	(4 dots per grid square)
(3)							Module	z
MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only	ntensive modules or	財					2	0
Ranks for microhabilat features. Select one or select two and average the score. NOTE: If mod falls on a slope automatically gets ranked based on steepness (1-3)	d average the score. NOTE	If mod falls on a slope a	utomatically gets ranke	d based on steepness	(1-3)		J.,	
Slope 1 = slight elevational grade across module (hill)	Slope 2 = falt	Slope 2 = falls on slope ~20 °	Slope 3 = maxim	Slope 3 = maximum sleepness that can be safely sampled ~45 °	ı be safely sampled	-45 °		انک
0 feature is absent or functionally absent (Golf Course Flat)							-	
 readure is present in very small emounts or if more common, of low quality feature is present in moderate amounts but not of blobest quality or in small amounts of blobest quality 	on, of low quality	of harbeel quality					RONAD INDICES (Assess)	
10 feature is present in moderate or greater amounts and of highest quality	highest quality	35					IFILLED OUT USING GIS PROGRAM - DO NOT FILL OUT IN	DO NOT FILL OUT IN
		c.w.d cc	c.w.d count for pieces with minimum 1m length	ninimum 1m length				LFI* TS
na of	no. of no. macro	c.w.d	c.w.d	c.w.d	microhab.	microhab.	At aspect N	
lussocks hu	hummocks depressions	s (2-12 cm)	(12-40cm)	>40 cm	interspers.		+45 degrees NE	
_		depth 1	depth 1	depth I	depth 1	SLOPE	Τ	
lxim	9	10x10m	10×10m	10x10m	10x10m	10x10m		
2 2 2) Table Ta	County	2		١	(EMIK)		
	2	٥	,	5	ند	-	770	+
8 2,4 0	0	14	-	0	W	_	+315 degrees NW	
9 2,4 0	0 72	14	0	0	23		within I	tbe)
						-	•• Terrain Shape Index (site microtopographic shape)	aphic shape)
		es.						
NOTE: tussock and hummocks are counted in BOTH nested quadrat comers but counts are aggregated. macro depressions = macrotopographic depressions with module. These may extend into other modules and be counted easin.	dule. These may extend in	are aggregated. o other modules and be c	ounted again.					
c w.d. = course woody debrts microhab interspers. = overall ranking of old microhapograp	thic interspersion complexity	usino engla balow	40					
Ŀ	ALC ILIERSDESSION COMPRESSIVE	ACIES WISSES DESIGN						

TRAIL INFORMATION: If trail fails in plot record type and cover for each	If trail fails d cover for	
Туре	%Caver	
u All Purpose		
u Bridle		Wo
Hiking sanctroned		Town
a Bootleg unsanctioned		

(A) Otherwellers of Westroperstan Page: 1 of 1

CROWN COVER (DENSIOMETER): Make 4 readings per module facing N, S, E, W. Place dot count in corresonding space.

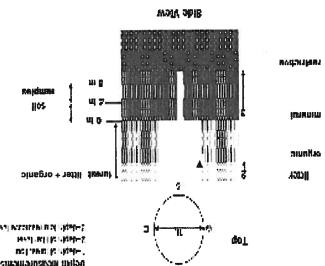
[4 dots per grid square)

9	80	3	2	Module
(V)	3	1	0	z
,	2	1	Ø	s
2	3	1	H	E
+	4	O	0	₩

and and the same of the same o	+315 degrees NW	+270 degrees W ~10 m away.	+225 degrees SW eye to eye of	+180 degrees S from recorders	+135 degrees SE Por TSI	+90 degrees E by local slopes.	+45 degrees NE horizon, TSI is	At aspect N LFI is angle of	LFI* TSI**	PRILLED OUT COING GIS PROGRAM - DO NOT FILL OUT IN FIELD
		m away.	to eye of	sure angle	TSI	ocal slopes.	zon. TSI is	is angle of		

	special property of the second display	
		which case they would span the herb
H	ni HBO mo č.S> as or height or as <2.5 cm DBH in	s benñab nafio ars zoniibaez aarT***
	1	√+Oery tall shrubs are sometimes included √+Can also include seedlings of shrub √+Can als
4	Submerged	Aquatic (submerged)
1	Floating	Floating
I	Herb, dwarf-shrub**, tree (seedling***)	Herb (Field)
1	Tree (sapling), shrub, llana, epiphyte)	Chrub (generally 0.5 to 5 m)
	Tree (overstory), very tall shrubs*, llana, epiphyte)	(m č< vilsneneta) eerT
	GENERAL FORM	MUTARTS
		COVER BY STRATA
_		

rejdume	# # # # # # # # # # # # # # # # # # #		uozhaikua
1	w o		iwunim
	011001		ashnuic
litter + organic	deenut was and		JCCCA.
	1	1	
MAY MISSIPPH RICK LYSPING	⊐ ∳		
Medical Istaly	- 1	/ do <u>1</u>	
no premi je sjeje.		1	
Dejrith Measurements	` '	, - *	



TRUME 3.00.—Ceneralizes section of Lyper Deromina, Mistersprian and Lower Pennatives the interpretarions of the peru Deromina Activities and Lower Pennatives from the action of the section systems of the section of the section as not to expressent of the section as the section is not to consider a few and the section as the section as the section as the section as the section of Huron Member*

Срадии Метрег

Claveland Member

Bedford Shale

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Sundarry Shale*

etinu Instazzneg Black Hend Sandstone Member exom eff to eno ai

numerous named members;

Berne Congiomerate Member Byer Sandstone Member Allensville Conglomerate Member Vinton Sandstone Member

Pottsville Group.

Onio Shale

Cuyahoga

Formation'

UPPER DEVONIAN

LOWER PENNSYLVANIAN

CLEVELAND METROPARKS Plant Community Assessment Program - Soils, Crown Cover, Standing Biomass Data Sheet Project label: PCAP Project Name: 0) HIZ2011

Plot No.: 1146

(P) Cleveland Motoparks

Page: 1 of 1

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

Soil pit module # 🖔 (one per entire plot)

%mottle oxid roots texture* redox feat hydr. conc matrix col mottle col %mottle oxid roots texture* redox feat	mot	3
%mottle oxid roots v v v v v v v v v v v v v	mottle color	matrix color \OYR 2/1

- refer to texture classes on reverse side
- ** e.g. hydrogen sulfide odor, gleying, etc.

=indundated S=saturated M=moist D=dry

Notes: include evidence of earthworms

(worms, castings, middens) tarthusorms not observed in soil pit, but found in

throughout plot casting/middens not observed

> SOIL SAMPLES SE intensive module and sample of the top 10

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

Soil Description/n

Web Soil Survey Information: Soil Series/Type: Ellsworth Soil Series Source: Ohio Soil Survey arent Material: andform type: plains 5;/+ 100 m

DRAINAGE*

□ Excessively drained

□ Somewhat excessively

□ Well drained

Moderately well dr.

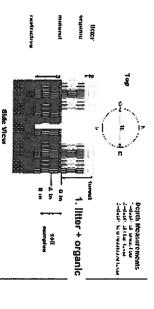
□ Somewhat poorly dr.

Poorly dr.

☐ Impermeable surface Very poorly dr.

notes:		mposited	lule		d composite the sample	cm of soil fi	tandard proc
		Α	Horizon (A, B, C)		the sample	cm of soil from center of each	tandard procedure: collect a soil
·•				`			
			Module #	C?=check when collected	each intensive module. Required for VIBI-E score calculation.	collected in 0.1m clip plots (32x32 cm) from corners 1 and 3 in	STANDING BIOMASS (required for emergent wetlands):
			C?	cted	e. Require	plots (32x	ASS (requ
			C? Comer		d for VIBI	32 cm) fro	ired for en
			Comer		-E score calcul	m corners 1 ar	nergent wetla
					ation.	ıd 3 in	nds):

	_	_		_	_	T.		-	
Use Web	ength of	9	00	<i>ر</i>	~	mod#			SOIL DE
Soil Surve	Length of soil probe = 125 cm	2.0	1.4	1.8	1.2	(cm)	organic depth	l litter +	PTH MEA st 0.1 cm i
y for #3 R	= 125 cm	2.0	1.4	1.8	1.2	(cm)	depth	2 litter	SUREME n center o
* Use Web Soil Survey for #3 Restrictive layer dept.		45*	38*	29*	28*	*[WSSI]	depth(cm)	3 restrict.	MENT INSTRI Fr of intensive record as >30
yer dept.		Ø	Ø	Ø	Ø	(cm)	depth	water	CTIONS: modules.
		>30	>30	8	>30	(cm)	sat soil	depth	SOIL DEPTH MEASUREMENT INSTRUCTIONS: Measure to the nearest 0.1 cm in center of intensive modules. If >30.5 cm, record as >30
			1,005 marks	Town of the second	PS+CHIVE	depth to		todry	tod Not hit restric.



11/21/1

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

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

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

Intermittently Flooded modifier.

the U.S. where appropriate. This modifier can be applied to both wetland and non-wetland situations. Equivalent to Cowardin's developed for use in the and West for water regimes of Playa lakes, intermittent streams, and dry washes but can be used in other parts of seasonal periodicity. Inundation is not predictable to a given season and is dependent upon highly localized rain storms. This modifier was

INTERMITTENTLY FLOODED: Substrate is usually exposed, but surface water can be present for variable periods without detectable surface. Often characterizes flood-plain levees and lower terraces. Equivalent to Cowardin's Temporary modifier.

TEMPORARILY FLOODED: Surface water present for brief periods during growing season, but water table usually lies well below soil characterizes flood-plain upper terraces.

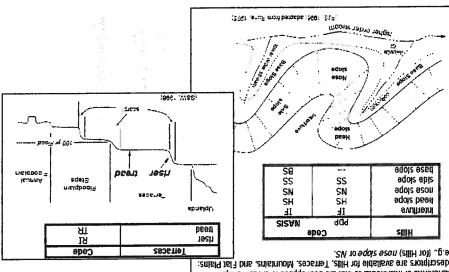
OCCASIONALLY FLOODED: Surface water can be present for brief periods during growing season, but not in most years. Often

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

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

UPLAND: Not a wetland. Very rarely flooded.

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

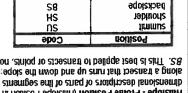




85. This is best applied to transects or points, not aleas. along a transect that runs up and down the slope; e.g., backstope or dimensional descriptors of parts of line segments (i.e., slope position) Hillstope - Profile Position (Hillstope Position in PDP) - Two-

23

ng



9= Not measured - make plot note

4= Coarse Sand

rs

adorsaoi

adolation

3= Sandy

Z= Clayey

1= Loamy

0= Organic

which form a ball but not a ribbon should be coded as loamy. both a ball and a ribbon should be coded as clayey; samples and attempt to form a self-supporting ribbon. Samples which form soil does form a ball, squeeze the sample between your fingers

a grainy texture, the texture is either sandy or coarse sandy. If the roll the sample into a ball. If the soil will not stay in a ball and has does not freely flow from the sample when squeezed. Attempt to enough that all of the particles are saturated but excess water of modeling clay/wet newspaper; the sample should be wet

the appropriate layer and moisten it with water to the consistency and 20 cm layers. To estimate texture, collect a soil sample from SOIL TEXTURE: Record the code for the soil texture of the 5 cm

Many DZ = Common # Ĵ 0S > 01 S Few COUN' Surface Area Covered SISAN Criteria: % of Code CISSS PERCENT MOTTLES (USE CLASS CODES):

Geomorphic Component - Three-dimensional descriptors of parts of landforms or microfeatures that are best applied to areas. Unique

%乙

CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey



	All Control of the Co			7.183.200.200.20			1
Tier 1: Early detection	/ Rapid response			sence,	Barrier Types	GPS 1	Parameter Versione
一种,我们就是一个人的人,	1 2	NE	SE	SW	NW		Presence
Microstegium vimineum	Japanese stiltgrass						X: yes
Ranunculus ficaria	Lesser Celandine				<u> </u>		
Cynanchum louiseae (vine)	Black Swallow-wort						Į.
Butomus umbellatus (wetland) Flowering Rush	↓					1
Heracleum mantegazzianum	Giant Hogweed	↓					1
Tier 2: Assess a	s Needed		-	Plants	_	commen	
		NE	SE	SW	NW		# of Plants
Acer platanoides	Norway Maple						1: 1-10
Ailanthus altissima	Tree of Heaven						2: 11-50.
Lonicera japonica (vine)	Japanese Honeysuckle						3: 51-100
Lythrum salicaria (wetland)	Purple Loosestrife						4: 101-1,00
Aegopodium podagraria (G-cover)	Bishop's Goutweed						5: >1,000
Celastrus orbiculatus (vine)	Asian Bittersweet						
Torilis sp.	Hedgeparsley						
Conium maculatum	Poison Hemlock						
Rhamnus cathartica	Common Buckthorn (shrub)						
Berberis thunbergii	Japanese Barberry (shrub)	1	1				
Alnus glutinosa	European Alder						
Dipsacus laciniatus	Cut-leaf Teasel						
Elaeagnus umbellata	Autumn Olive (shrub)			Г			
Lonicera maackii	Amur Honeysuckle (shrub)						
Euonymus fortunei	Wintercreeper						
Tier 3: Presence is			# of	Plants		comments	
and 100 100 100 100 100 100 100 100 100 10		NE	SE.	sw	NW		# of Plants
Convallaria majalis (G-cover)	Lily of the Valley						1: 1-10
	Crown Vetch						2: 11-50.
Eleutherococcus pentaphyllus	Five-leaf Aralia (shrub)			Ì			3: 51-100
	Japanese Pachysandra						4: 101-1,00
Philadelphus coronarius	Mock Orange (shrub)						5: >1,000
Pulmonaria officinalis (G-cover)	Lungwort						
Rubus phoenicolasius	Wineberry		†				
ris pseudacorus (wetland)	Yellow Flag Iris		†				
Ornithogalum umbellatum	Star of Bethlehem						
Viburnum opulus var. opulus	European Cranberry (shrub)						
Viburnum plicatum	Doublefile Viburnum (shrub)						
Tier 4: Widespread	The state of the s	91/2	Pres	ence	侧水果	comments	
(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		NE	SE	SW	NW	(1) · 田田 在野山北下山	Presence
Alliaria petiolata	Garlic Mustard			X	Х		X: yes
Ligustrum vulgare	Common Privet (shrub)				()		/==
L. morrowii, L. tatarica	Bush Honeysuckles (shrub)	X	X	X	\vdash		
Phalaris arundinacea	Reed Canarygrass						
Phragmites australis (wetland)	Phragmites	1	+				
Polygonum cuspidatum	Japanese Knotweed	-	 				
Frangula alnus	Glossy Buckthorn (shrub)	 	UNIV				0.
-rangula ainus Rosa multiflora	Multiflora Rose (shrub)	1	X	X	×		
		1					
Typha angustifolia, T. x.glauca	Cattails (wetland)	+-	-				
Cirsium arvense	Canada thistle	-					
Dipsacus fullonum	Common Teasel	-	-				
Hesperis matronalis	Dame's Rocket		-				
Vinca minor (G-cover)	Periwinkle						

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

																1						1					
Фолмпонтим. Раде: 1 of 2									rs when necessary	(3		•]					[-	<u> </u>				ile using Tree ID number				
DALLY TREES \geq 10CM ONLY Date: $\frac{2P/ \mathcal{Y} }{ \mathcal{Y} }$					X		S		*** Change intensive module numbers when necessary			[n	e	uiles	8		[2)			Map all ash trees ≥10cm in each module using Tree iD number				
INTENSIVE MODULES ONLY Plot No.: 1/4 C Date:		Woodpecker holes	NC	ž.																							
INTENSIVE MOD Plot No.: [14C	Only	icormic esent		NC										1													
	ASH Only	# Exit	WO	_																							
		*Dead condition																									
Sheet Project Name: QI HT 2011		Ash condition	2	3							"																
0.9	Γ	# BH																		_							
ect Nam		(cm)	12.9	323										5						-	_			ų.	_		
raxinus She Proj		Voucher #																									
er - F		bseQ o																		_							
CLEVELAND METROPARKS Emerald Ash Borer - Fraxinus Sheet Project Label: PCAP Project		Species		المر على																							
VELAN		Tree Je ID.	1	2	3	4	5	9	7	80	o	9	7	12	13	14	15	16	1	48	5	20	21	22	23	24	25
SE SE		Module	7	90																							

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

Site	ID: Po	9P -	IT	1140	0									DAT	E: 0 7	11 4	/_/	00	1.	1	
Locat	ion:							Fill	in b	ubb	ole(s) if [plot	(s) co	uld not be	sampl	ed ar	nd fla	g —	• [
OAA	Center	ON	0	S	0	E (W		lot		Links and	Plot	4-17		Plot 3						
Fill in bubb	les for all tha	t apply: Ca	anopy	Туре:	D = 1	Deciduo	us: E = Evergre	Buffer en. Leaf T	vpe: F	R = Br	nadlea	af·N=	Neer	tle Leaf	Absent: No tre	e canopy.					
Strata Sect	tion: Fill in ap	propriate	cover	class	bubbl	e for eac	ch strata type fo	or each plo	t. 0 =	Abser	nt; 1 =	Spars	e(<10)%); 2=N	Moderate(10-40)%); 3 = Hea	avy (40-	75%);	l = Ver	/ Heav	y (>75°
Buffer	Canopy			A	bser	nt: O	Buffer	Canop	у Тур	e: () A	bsei	nt: C	Buffer	Canopy	у Туре		0	Abse	nt: (
Plot 1		Type:		<u> 기</u>	1-	Flag	Plot 2	Lea	f Typ	e: ((Flag	Plot 3	Lea	f Type		0		Fla
Big Trees ((>0.3m DBH)	$\overline{\mathfrak{D}}$	0	0			Big Trees (>	-0 3m DBH)	0	0	0		0		Big Trees	(>0.3m DBH	0	0) (C		
Small Trees (00	0	•	0		Small Trees (0	\odot	9	0	0		Small Trees	(<0.3m DBH		0		0	
	n-5m HIGH)	$\mathfrak{O}[\mathfrak{O}]$		0	0			-5m HIGH)	0	0		3	0		Woody Shr (0.	ubs, Saplings 5m-5m HIGH)	0	0) (0	
	0.5m HIGH)	0	0	0	0			5m HIGH)	0	0		0	0			ubs, Saplings <0.5m HIGH)	0	•) (C	0	
Herbs, I	Forbs and Grasses (O	0	0	0		Herbs, F	orbs and Grasses	0		0	3	0	2 1 2 A 2 A 2 A 2 A 2 A 2 A 2 A 2 A 2 A	Herbs	, Forbs and Grasses) (C	0	
Bare	ground ($\mathfrak{D} \mathfrak{D}$	0	0	0		Bare	ground	0		0	0	0		Ва	re ground		0	2 (0	
Lit	tter, duff ($\mathbb{O}[\mathbb{O}]$	0	0			Lit	ter, duff	0	0	0	0			l	itter, duff	0	0	0		
	Rock (0	0	0			Rock		0	0	0	0			Rock		0	0	0	
	Water		0	0	0			Water		0	0	0	0			Water		0) (c	0	
	ubmerged /egetation		0	0	0			bmerged egetation		0	0	0	0			Submerged Vegetation		0	0	0	
Stress	sor Prese	nce/Ab	sen	:e - (Conf	irm that	a filled data	bubble ir	ndicat	es pr	esen	ce ar	nd an	unfille	d bubble indi		ence by	y filling	this b	ubble	
Resi							lydrolo	gy S	tres	sors			1/4		Agricult	ural &	Rura	I Stre	25501	rs	
Fill bubble	bubble if present - Plot 1 2 3 F pad - gravel O O O					Flag	Fill bubble	if prese	nt - F	Plot	1	2	3	Flag	Fill bubble	if preser	nt - Pic	ot 1	2	3	Fia
Road - gra	ad - gravel OOO					Ditches, Ch	nanneliza	tion		0	0	0		Pasture/Ha	ау		1	0 0	0		
Road - tw	o lane		0	0	0		Dike/Dam/I		Bed	173	0	0	0		Range			1	0	0	
Road - for	ur lane		0	0	0		Water Leve	el Control	Stru	cture	0	0	0		Row Crops		MAL		0	0	
Parking L	ot/Paveme	nt	0	0	0		Excavation	, Dredgin	g	2 ,	0	0	0		Fallow Fiel	D)		3 () (0	
Golf Coun	se		0	0	0		Fill/Spoil Ba				0	0	0		Fallow Fiel SHRUBS, TRE		ASS.	() (0	
Lawn/Parl			0	0	0		Freshly De	D)		ent	0	0	0		Nursery			(0	
	Residentia	ı	0	0	0		Soil Loss/R	-	sure		0	0	0		Dairy	Maria Maria		-) (+	+
Urban/Mu	Ititamily		0	0	0		Wall/Riprap				0	0	0		Orchard					-	_
Landfill			0	0	0		Inlets, Outle				0	0	0		Confined A		ding) (_	_
Dumping Trash			0	0	0		(EFFLUENT OI				0	0	0		Rural Resid	entiai		9	1		1
Other:			00	0	0		Other:				0	0	0		Gravel Pit			-		1	
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FORM B-1: BUFFER SAMPLE PLOTS - TARGETED ALIEN SPECIES (Back)

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	Water	0	0	0	0	10	20000		Water	0	0	0	0	0			Water	0	0	0	0	0	
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Urban/Mul				0	0	0		Wall/Riprag		98/6		0	0	0		Orchard			-	0	0	0	
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Buffer Sample Plots 05/27/2011

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FORM 8-1: BUFFER SAMPLE PLOTS - TARGETED ALIEN SPECIES (Back)

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet	Assessment Progra	m - Background Data	Sheet				© Cleveland Metropanks	Metroperks
Project Label:	PCAP	Project Name:				Plot No.:	ď	Page 2 of 2
CLASSIFICATION		STAND SIZE	DISTU	DISTURBANCES				
(FIT = excellent, good, fair, poor, CONF = high, med, low)	Fit and Confidence	□ >1,000 x plot size	type*	severity**	yrs ago	% of plot	description	
Hvdrogeomorphic class (WETLANDS ONLY):		□ > 100 x plot size	Human					
a DEPRESSION	Fir Conf	a 10-100 x plot size	Natural					
D IMPOUNDMENT D Beaver D Human	Fir Conf	□ 3-10 x plot size	Fire					
□ RIVERINE □ Headwater □ Mainstem □ Channel	Fit Conf	□ 1-3 x plot size	Cut					
SLOPE (ground water hydrology or on a physical slope)	Fit=Conf=	a < plot size	Animal					
□ FRINGING □ Reservoir □ Natural Lake	Fit=Conf=	DRAINAGE*	Other					
□ COASTAL (specify subclass)	Fit=Conf=	☐ Excessively drained	**L=low.	ML=med lov	w. M=med.	MH=med	**L=low. ML=med low. M=med. MH=med high. H=high. VH=very high	u u
a BOG (strongly, moderately, weekly ombrotrophic)	Fir Conf=	□ Somewhat excessively	Current Land Use:	Land Use:				
Ohio EPA VIBI Plant Community Class (WETLANDS ONLY):	NLY):	□ Well drained	Former Land Use:	and Use:				
□ FOREST □ swamp forest □ bog forest □ forest seep	Fir Conf	□ Moderately well dr.	HYDR	HYDROLOGIC REGIME*	REGIM	*		
□ EMERGENT □ marsh □ wet meadow □ open bog	Fir Conf	□ Somewhat poorly dr.	a Upland	ם Upland (seldom flooded)	ded)		□ Intermittently flooded	
o SHRUB o shrub swamp o tall sh. bog o tall sh. fen	Fit= Conf=	□ Very poorly dr.	□ Intermi	□ Intermittently/seasonally saturated	ally saturat	eq	□ Semipermanently flooded	
MODIFIED NATURESERVE CLASS*		□ Impermeable surface	(seldon	(seldom flooded)			☐ Permanently flooded	
CODE (on separate form):	Fir Conf	SALINITY*	□ Perman	□ Permanently/Semipermanent, saturated	rmanent sa	ıturated	☐ Tidal/Seiche flooded daily	>.
COMMUNITY NAME:		□ Saltwater	(dry <1	(dry <1/yr, seldom flooded)	(poppoo		a Tidal/Seiche flooded monthly	ithly
		o Brackish	□ Occasio	□ Occasionally flooded (<1/yr)	l (<1/yr)		□ Tidal/Seiche flooded irregular	gular
LANDFORM TYPE*:		o Fresh	a Tempor	a Temporarily flooded			(e.g. wind, storms)	
		□ Upland (n/a)					a Unknown	
HOMOGENEITY	Additional notes & diag	Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.)	of plot to t	he stand, succ	essional st	atus, matur	ity, etc.)	
п Homogeneous								
a Compositional trend across the plot								
Conspicuous inclusions								
 Irregular/pattern mosaic 								

Port At Wordon Holmstead sur thike in 500+m

		2		
*				