CLEVELAND MET	TROPARKS Plant Community Asses	ssment Program:	Quality Control Form
Project Label:	PCAP	_ Plot No:	3463 Date Sampled: 7-17-12 Lead: Barton
			Comment required if item answer is NO
Parking/Access outside	de of Park Boundaries:	Y (N)	If yes, write details in Comments section below
Field journals comple		(Y) N	
Site sketch made on 1		(Y) N	
Check cover page	X-axis Bearing of plot recorded	Y) N	
	GPS coords. Recorded	Ø N	
	North direction recorded	(Ŷ) N	
	Photographs taken?	(Y) N	
Plot No., Date agreen		(Y) N	
Header data complete		Y N	
	ed in all Intensive modules	(Y) N	
Browse Level By Spe		N N	
Woody stem quality	·	Y) N	
Invasive plant quality		YN	MA
Ash trees mapped	TOTAL OF WHITE	Y (N)	NIA
Cover by Strata? (cor	afirm cover type)	Y N	(4)
· ·	d with matching plot #.	Y N	
· · · · · · · · · · · · · · · · · · ·	datasheet with initials and number	W N	
Vouchers labeled on		Y N	
	conection dag	Y N	
Pink flags removed	. 1i0		
Data sheet QA before	v	Y N	
Common equipment		7/25/12	Francisco I.A. 41.2
Data sheets scanned?		1145114	Enter date to left N.Z.
Final data sheets scar		y N	Enter date to left LNH 7/19/12
Buffer Widths measu	red?		
Web Soil Survey	I		AJY 7-19-8012
Voucher Location	Refrigerator	Y N	
(# vouchers collected)	Press (#)		Enter number to left
	Drier	Y N	
	Identified	Y N	
	Mounted	Y N	
	Thrown away	Y N	
		MAKK	
GRTS point verifica	tion: Is plot sampleable?		
¥ Yes	Original GRTS point is sampleable		
□ No	Original GRTS point lands in a non-	sampleable area (1	fill in category below)
	Point falls in a water (i.e. river,	-	
	☐ Managed mowed area (i.e. golf	course, picnic area, rig	ht-of-way)
	Paved area (i.e. parkingiot, road)		
	☐ Unsafe to sample (i.e. steep slope ☐ Other	=)	
Additional Commen			
Additional Commer	ILS:		
<u></u>			

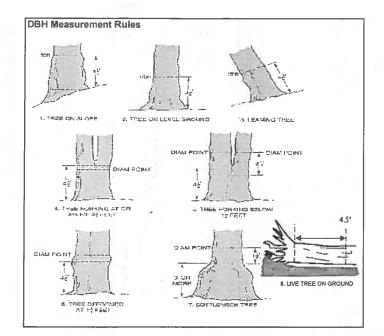
	☐ Systematic (grid) ☐ Capture specific feature ☐ Other	Coc Pub Date: 1998
	□ Random □ Stratified Random □ Transect component	ANDARD 1000
	r iot placement: # GR13	TAVONIONIE CETANIONIE
	mant. Corre	×
•	Photo Nos.: 0961	bryo
nero - 1 glygonur vilginiarium	Camera No.: 3	vascul. X n/a
1 1 0	Intensive modules: 2,3,8,9 /, 2,3 (EDIT IF MODIFIED)	high modera. low not smpl
Louicea moravillostrya viginiana	Depth: (1-5): 4	TAXONOMIC ACCURACY
Shrub - Un Known (Persythia), Rubus, h	X-axis Bearing of plot: $[62]^{\circ}$	□ Hurried data
Saccharun	Plot size for cover data: 0.03 (hectares)	nay still provide good
Conya corditornis, Privais senting, A	GPS File Name: $5463A$	Very thorough how much effort put into
Veg. Char. Lanopy- Quercus rubra, Acer no	Coord. Accuracy: am aft 100%+-	Effort Level: subjective evaluation of
1 12	Longitude: ~ 81, 83870	SAMPLING QUALITY*
Datiolak, Orl	Latitude: 41.44384	□ Perm. water □ Paved □ Slope □ Safety
R June CRTS	plot x=0, y=0)	PLOT NOT SAMPLED: DOther
wood lot behind gipen	GPS location in plot $x=0$ to 5, $y=-1,0,+1$):	** Roles: Co-leader, Asst., Guide, Owner, Taxonomist, etc.
LOCATION, Dig MET goll CONDETERSION OF	Datum: ■ NAD83/WGS84 □ NAD27	
1 Part A something	□ Other (specify)	K. Lewis 11
Layort: 1x3	■ Lat/Long □ UTM □ StatePlane ■ deg □ deg min	A. Young Woodylsoils
dominants, strata, BROWSE). Additional notes in space on back.	Coordinate system: Coord. Units	B. Rucker Bd. Asst.
content), Rationale (why here), and Veg Characterization (description of community.	Source of coordinates MAP GPS	Lilyron Plot leader
Key: (0,0) point point with direction permanent posts	If data not public why?	Party Role**
GPS location photo taken	Reason:	End date (if > 1 day):
**	□ Fuzz 100m □ Fuzz 250m □ Fuzz 500m	Date (mm/dd/yyyy): 7 / 17 / 12
Ţ,	Check one: Public data Private Data	Level 5 (nested corners sampled)
- 2	Data Confidentiality:	Level 4 (no nested corners sampled)
plot: #10 #9 #9	or CM	Plot No.: 3463
2.10 3 A 3	golf course	CRUPTUS SOCIARIO
*	Local Place Names:	
	angle:	Project Name: OIRR 2012
	State: OH County:	Project Label: PCAP
	LUCATION	GENERAL INFORMATION

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet Project Label: PCAP Project Name: 0/R230/2	munity Assessment F	rogram - Background Data Sheet Project Name: <u></u>	nd Data Sh	eet 2		Plot No.:	3463 Page 2 of 2
MODIFIED NATURESERVE CLASS*			DISTURBANCES	BANCES			
CODE (on separate form):	Fit- 6 Conf- H		type* s	severity**	yrs ago '	% of plot	description
J	8		Human	3		100	Golf balls
	J		Natural				
COMMUNITY NAME:	2		Fire				
			Cut				
Mixed			Animal	MH	0	100	Deer Browde , animal dens
			Other				
HOMOGENEITY			**L=low, M	L=med low,	M=med,	MH=med h	**L=low, ML=med low, M=med, MH=med high, H=high, VH=very high
Homogeneous □ Compositional trend across the plot	end across the plot		Current Land Use:	—	ark/	Golf	Soft course
☐ Conspicuous inclusions ☐ Irregular/pattern mosaic	mosaic	21	Former Land Use:	nd Use: 6	1/4 K.		
	HYDROLOGIC REGIME*	IME*					
	Upland (seldom flooded)	□ Intern	□ Intermittently flooded	led			
SALINITY*	□ Intermittently/seasonally saturated		□ Semipermanently flooded	looded			
□ Saltwater	(seldom flooded)	□ Permi	□ Permanently flooded	Ä.			
□ Brackish	□ Permanently/Semipermanent. saturated		Tidal/Seiche flooded daily	d daily			
□ Fresh	(dry <1/yr, seldom flooded)		Tidal/Seiche flooded monthly	d monthly			
Upland (n/a)	□ Occasionally flooded (<1/yr)		☐ Tidal/Seiche flooded irregular	d irregular			
	□ Temporarily flooded	(e.g.	(e.g. wind, storms)				
(by default unless plot is a wetland)		□ Unknown	own				
Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.) We did not our buffer lines or invasive quadrates	s of plot to the stand, succes	Ines or invasive quadrats beaute of the gott course.	5 beau	07	The state of the s	ga L	+ course
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		Explain subsample (additional room on back):	n bac	k):		. 1											-	
					# stems	% sub	#	size class	size class (cm) woody stems >1.4m	dy stems >	1.4m							
NAME OF	mod #	species	n	voucher#	ш	or super	shrub clumps	0-<1	2 1-<2.5	3 2.5-<5	5-<10	5 10 - <15	6 15 - <20	7 20 - <25	8 25 - <30	9 30 - <35	10 35 - <40	11 >40 (record each
Call A	_	Prunus Amesia sero	2	CI-1801 300	म्	_				110	*	9 4						
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<		Lubus pennsylvania	à					18 (S) (S)										
<	-	Lonicera mograwii	þ	9		Ą	21											
(حر	Unknow this the little	X	125	. 0		Ø											
1	20	Prunus suratina										,	Q.	0				
<	8	~	7								0	•						
<		Aesculus glabra			a	×						6						
<	2	المحن								•	00							
<	n	Lanicera morrawii				•	-				ron A							
<	7	5										Alme Sime			•			
<	2	0									9 0							
2	1	V ->															6	(166
<	1	5					3				0.516		۰					
	2	Rubus pennsylvani). C	A	00	×	(
<	12	Fraxinus sp.	L		0.0							3.8						
<	la de	Carya corditormis	3	5								×						



Woody Stem Deer Browse

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

Record using the tally system from 1 to













ASH CANOPY CONDITION

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



В

С

D

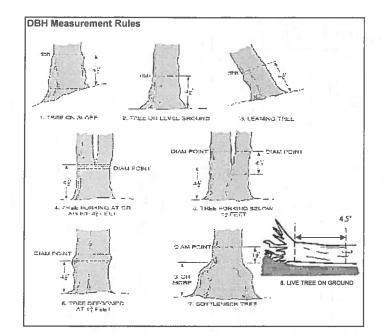
Е

ASH CANOPY BREAKUP CONDITION (for dead trees):

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

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

Co mod # CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet Rosa Untertaint the astronomy Prunus serotina Explain subsample (additional room on back): Rubus a Hegheniens Parthenocissus Berberis + hunburgi Lubus pennsy vanil raxinus ponnisti LONICERA Morrow multiflore rubra Project Label: agre Polic 758 125 PCAP voucher# Z browsed 0-1.4m # stems sample | clumps or super % sub Project Name: 01 RR2012 9 4 shrub # size class (cm) woody stems >1.4m , p. 40 40 40 0-<1 1-<2.5 2.5-<5 Plot No .: 3463 4.0 5-<10 10 - <15 15 - <20 D . . 20 - <25 Page: 25 - <30 8 30 - <35 으 © Cleveland Metropaiks 35 - <40 10 56. 600 >40 (record each tree) 00 W or the trans



Woody Stem Deer Browse

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

Record using the tally system from 1 to 1













ASH CANOPY CONDITION

- 1. Healthy, full canopy: A healthy ash canopy is normally thinner than many other trees such as maple.
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В

_

D

E

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Project label: PCAP CLEVELAND METROPARKS Plant Community Assessment Program - Soils, Crown Cover, Standing Biomass Data Sheet 6a Project Name: O | RR 20 | 2

Plot No.: 3463

(Calcinoland Metroparks

Page: 1 of 1

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

Soil plt module # 2 (one per entire plot)

20 cm 6 cm matrix color matrix color hydro cond *** texture* lexture* oxid roots edox features** nydr. cond.*** edox features** oxid roots mottle mottle ottle color ottle color 109R 4/3 1048 4/H 7 2 0 0 S M D S ≥ 2 3 þ 5 3

refer to texture classes on reverse side

** e.g. hydrogen sulfide odor, gleying, etc.

Notes: include evidence of earthworms (worms, castings, middens) indundated S=saturated M=moist D=dry

るま

cashing in med 2 No earthwarms abserved

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

> > TRAIL INFORMATION

acord type and cover for each

Type

%Cover

All Purpose

Soil Series/Type: EUCLI'd Silt lodom Soil Collection Module Horizon (A. B. C) Soil Series Source: Ohio Soil Survey andform type Stream terrace ,3,8,9 composited

Depth to rest. Layer 780 in Ches

Parent Material and For Sith, glaciotation than the second Well drained domewhat poorly dr. Excessively dr. Somewhat excessively Moderately well dr. Very poorly dr

400-51-t 40A

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

	Α,	- 1		
	ŷ	2	-	mod#
	0.4	0.2	0.1	l litter+ organic depth (cm)
	0.4	0.2	0.1	2 litter depth (cm)
1 1	0	0	0	water depth (cm)
	230	>30	>30	depth sat

NA	Other	meter	**** <5 cm in diameter
0	Road/Trail	neter	*** >5 cm in diameter
વે૦	Bare Soil	5.	S Boulder = > 10 in
0	Water	· 1/16-10"	* Gravel-Cobble = 1/16-10"
0	Bryophyte- Lichen	0	Bedrock
a	Duff (Ferm. + Humus)	0	Boulder**
70	Litter	ىھ	Gravel-Cobble*
ىو	Fine Woody Debris****	23	Mineral Soil
3	Coarse Woody Debris***	0	Histosol
percent	(Each ≤ 100%)	percent	(Sum = 100%)
	Ground Cover	Surface*	Underlying Earth Surface*
	D COVER	CE & GROU	EARTH SURFACE & GROUND COVER

Hiking sanctioned

Bootleg unsanctioned

) Gravel

NO TRAIL

PRESENT

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

AN	NA	(Aquatic)*
NA	NA -	(Floating)*
13	S.0 - 0	Herb
33	0.5.5	Shrub
36	5 . +	Tree
Total Cover (%)	Height Range (m)	Strata

rooted and floating or slightly emersed

submersed, most plant mass below surface

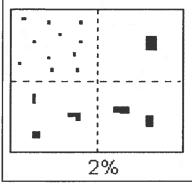
SEE BACK OF PAGE FOR "TYPICAL"STRATA

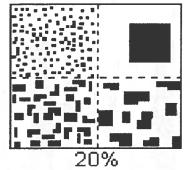
DESCRIPTIONS. STRATA CAN VARY BY COVER TYPE.

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

PERCENT MOTTLES (USE CLASS CODES):

Class	(Code	Criteria: % of
	Conv.	NASIS	Surface Area Covered
Few	f	<u>#</u>	< 2
Common	С	#	2 to < 20
Many	m	#	≥ 20





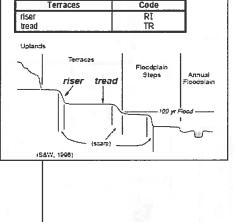
SOIL TEXTURE: Record the code for the soil texture of the 5 cm and 20 cm layers. To estimate texture, collect a soil sample from the appropriate layer and moisten it with water to the consistency of modeling clay/wet newspaper; the sample should be wet enough that all of the particles are saturated but excess water does not freely flow from the sample when squeezed. Attempt to roll the sample into a ball. If the soil will not stay in a ball and has a grainy texture, the texture is either sandy or coarse sandy. If the soil does form a ball, squeeze the sample between your fingers and attempt to form a self-supporting ribbon. Samples which form both a ball and a ribbon should be coded as clayey; samples which form a ball but not a ribbon should be coded as loamy.

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

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

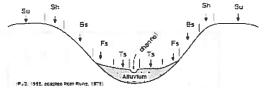
e.g., (for Hills) nose slope or NS.

Hills	Cod	e
	PDP	NASIS
Interfluve	ĬF	IF
head slope	HS	HS
поѕе slope	NS	NS
side slope	SS	SS
base slope		BS
	Head slope	Red Levie



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

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



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

UPLAND: Not a wetland. Very rarely flooded.

(PJS, 1995; adapted from Ruine, 1975)

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

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

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

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

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

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

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

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

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

Project Label: PCAP Project Name: 0 RR 1012

Plot No.: # 3463

(Calebook and Metro parton Page: 1 of 1

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	trom corners I and score calculation. (3 in each	when
Module #	C7	Corner Corner	Corner

CLASSIFICATION		
(FIT = excellent, g Fit and Confidence		
Hydrogeomorphic class (WETLANDS ONLY):		
DEPRESSION	1	Conf=
□ IMPOUNDMENT □ Beaver □ Human	1	Conf=
□ RIVERINE □ Headwater □ Mainstem □ Channel	H	Conf=
□ SLOPE (ground water hydrology or on a physical slop)	<u> </u>	Conf=
□ FRINGING □ Reservoir □ Natural Lake	Fie	Conf=
D COASTAL (specify subclass)	FI	Conf=
BOG (strongly, moderately, weekly ombrotrophic)	Fit=	Conf=
Ohio, EPA VIBI Plant Community Class (WETLANDS ONLY):	Ë	
□ FOREST □ swamp forest □ bog forest □ forest seep	= 	Conf=
□ EMERGENT □ marsh □ wet meadow □ open bog] 	Conf=
□ SHRUB □ shrub swamp □ tall sh. bog □ tall sh. fen	Fi=	Conf≔

MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only

Slope 1 = slight elevational grade across module (hill) anks 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) to begin + any features present Slope 2 = falls on slope ~20° Slope 3 = maximum steepness that can be safely sampled ~45°

- feature is absent or functionally absent from the wettand
- feature is present in the wetland in very small amounts or if more common, of low quality
- feature is present in moderate amounts, but not of highest quality, or in small amounts of highest quality
- 10 feature is present in moderate or greater amounts and of highest quality

NOTE: fussoo			w	2	_	mod#						
k and hummocks						corner						
are counted in BO			Ø	0	0	(count)	lxim	depth 3		lussocks	no. of	
NOTE: hissory and himmory's are coupled in BOTH sected quadral conservation and accompany			0	0	9	(count)	3.16x3.16m	depth 2	uplands (Tip-Ups)	hummocks	no, of	
are hut counts are an			0	0	0	(count)	10x10m	depth 1		depressions	no. macro.	
100			16	18	10	(count)	10x10m	depth 1		(2-12 cm)	c,w.d	attent and
			-	w	0	(count)	10x10m	depth 1		(12-40cm)	c.w.d	
			a	0	0	(count)	10x10m	depth 1		>40 cm	c.w.d	
			_	-		(rank)	10x10m	depth 1		interspers.	microhab.	
			لما	S	3	(rank)	10x10m	SLOPE			microhab.	

McNAB INDICES (degrees) + for up - for down

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

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

y	- 3	+ 2	† (Module	corresonding space. (4 dots per grid square)
	2	ì	1	Z	ace. (4 dots pe
	-	1	1	s	r grid square
	4	2	-	E	
	-	7	1	W	_

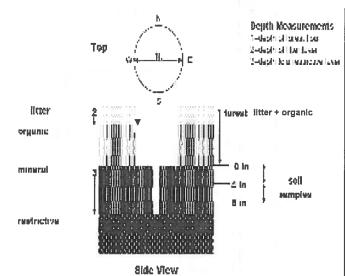


COVER BY STRATA

STRATUM	GENERAL FORM
Tree (generally >5 m)	Tree (overstory), very tall shrubs*, liana, epiphyte)
Shrub (generally 0.5 to 5 m)	Tree (sapling), shrub, liana, epiphyte)
Herb (Field)	Herb, dwarf-shrub**, tree (seedling***)
Floating	Floating
Aquatic (submerged)	Submerged

*Very tall shrubs are sometimes included in the tree stratum
**Can also include seedlings of shrubs, i.e. all shrubs <0.5m

^{***}Tree seedlings are often defined as up to 1.4 m height or as <2.5 cm DBH in which case they would span the herb and shrub layers.



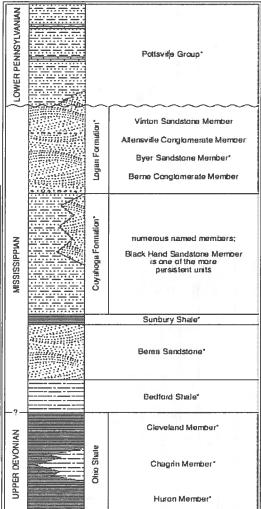


FIGURE 3-20.—Generalized section of Upper Devonian, Mississippian, and Lower Pennsylvanian formations in northeastern Oftio Asterisks indicate units that are fossiliferous. This composite section represents about 400 meters of rock exposed across the area. The section is not to scale, but the inclinesses indicated are proportional. The term "Waverly is used in the older literature to refer to Mississippian rocks in Ohio. Some geologists use the European term "Carboniferous," which encompasses the Missispipian and Pennsylvanian Periods of the U.S. Many units have been named within the Cuyahoga Formation, but most units are local and cannot be traced over great distances. The Black Hand Member is a spectarular missive sandstone that is fairly widespread but discontinuous. See Hyde (1923), Hoover (1960), and Colins (1979) for more information on Mississippian rocks in Ohio. See figure 3-13 for explanation of rock types

CLEVELAND METROPARKS Emerald Ash Borer - Fraxinus Sheet Module Tree 24 23 22 21 20 19 8 17 16 15 14 13 = 70 N 9 œ 7 * 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) 0 trax, nus Project Label: PCAP Voucher # Project Name: Ol RP 2011 (cm) Ht @ Ash *Dead
DBH condition condition # Exit Epicormic present INTENSIVE MODULES ONLY Plot No.: 3463 Date: 7-17-2012 Woodpecker holes Baseline Map all ash trees ≥10cm in each module using Tree ID number *** Change intensive module numbers when necessary 2 9 Z Page: 1 of 2 **60** ω

Cleveland Metroparks CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey Tier 1: Early detection/ Rapid response **GPS** Presence SW NE SE NW Presence Microstegium vimineum Japanese stiltgrass X: yes Ranunculus ficaria Lesser Celandine Cynanchum louiseae (vine) Black Swallow-wort **Butomus umbellatus** (wetland) Flowering Rush Giant Hogweed Heracleum mantegazzianum Tier 2: Assess as Needed # of Plants comments NE SE SW # of Plants Norway Maple 1: 1-10 Acer platanoides Ailanthus altissima Tree of Heaven 2: 11-50. Lonicera japonica Japanese Honeysuckle 3: 51-100 (vine) 4: 101-1,000 Lythrum salicaria (wetland) Purple Loosestrife Aegopodium podagraria (G-cover) Bishop's Goutweed 5: >1,000 Celastrus orbiculatus Asian Bittersweet (vine) volated Torilis sp. Hedgeparsley Conium maculatum Poison Hemlock Common Buckthorn Rhamnus cathartica (shrub) Berberis thunbergii Japanese Barberry (shrub) Alnus glutinosa European Alder Dipsacus laciniatus Cut-leaf Teasel Autumn Olive Elaeagnus umbellata (shrub) Lonicera maackii Amur Honeysuckie (shrub) Euonymus fortunei Wintercreeper Tier 3: Presence is of Interest # of Plants comments SW NW # of Plants NE SE Convallaria majalis (G-cover) Lily of the Valley 1: 1-10 Coronilla varia (G-cover) Crown Vetch 2: 11-50. Eleutherococcus pentaphyllus Five-leaf Aralia (shrub) 3: 51-100 Pachysandra terminalis (G-cover) Japanese Pachysandra 4: 101-1,000 Philadelphus coronarius Mock Orange (shrub) >1,000 Pulmonaria officinalis (G-cover) Lungwort Rubus phoenicolasius Wineberry Iris pseudacorus (wetland) Yellow Flag Iris Ornithogalum umbellatum Star of Bethlehem Viburnum opulus var. opulus European Cranberry (shrub) Viburaum alicatum Doublefile Viburnum

Viburnum plicatum	Doublefile Viburnum (shru	2)				
Tier 4: Widespread	and abundant		Pr	esence		comments
		NE	SE	SW	NW	
Alliaria petiolata	Garlic Mustard	1				
Ligustrum vulgare	Common Privet (shru) 1				
L. morrowii, L. tatarica	Bush Honeysuckles (shru	0) 2	1			
Phalaris arundinacea	Reed Canarygrass					
Phragmites australis (wetland)	Phragmites					
Polygonum cuspidatum	Japanese Knotweed					
Frangula alnus	Glossy Buckthorn (shruk)				
Rosa multiflora	Multiflora Rose (shru) 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)

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

FORM B-1: BUFFER SAMPLE PLOTS (Front)												ront)		Reviewe	ed by (in	itial): _							
Site	ID:														DATE	Ē:	1	1				1	
Locati	on:		(198		1100	XI DAY	1000		Fill	in b	ubb	le(s) if p	lot(s	s) cou	uld not be	sample	d an	d fla	g —	→		T
OAA	Center	C	N	0	S	01	E 0	w	OF	Plot	1	0	Plot	2	OF	Plot 3							
	6!! 4\		-1 0-		.	D - 5	!		Buffer						-	N A. N A							
																Absent: No tree oderate(10-40		vy (40-7	75%); 4	= Vei	гу Не	avy (>75%)
Buffer	Сапор	у Тур	e: 🕒) () AI	bsen	t: O	Buffer	Canop	у Тур	e: (0) () At	sent	: 0	Buffer	Canopy	Туре	:0	(E)	Abs	sent	0
Piot 1	Lea	f Typ	e: 🕒) (·			Flag	Plot 2	Lea	f Typ	e: 🕝) (-	Flag	Plot 3	Leaf	Type:	: 0	<u> </u>			Flag
Big Trees (>	•0.3m DBH)	0	0	2	0	0		Big Trees (>0.3m DBH)	0	0	2	0	0		Big Trees	(>0.3m DBH)	0	0	2)()	0	
Small Trees (<0.3m DBH)	0	0	2	0	0		Small Trees (<0.3m DBH	0	0	①	0	0		Small Trees	(<0.3m DBH)	0	0) (c	3	0	
Woody Shrubs (0.5m	s, Saplings -5m HIGH)	0	0	0	<u></u>	0		Woody Shrub (0.5π	s, Saplings 1-5m HIGH)	0	0	0	0	0			ubs, Saplings 5m-5m HIGH)	0	0	2)(<u></u>	0	
Woody Shrubs (<0	s, Saplings .5m HIGH)	0	0	①	0	0		Woody Shrub (<0	s, Saplings 0.5m HIGH)	0	0	0	0	0			ibs, Saplings <0.5m HIGH)	0	0 () (c)	0	
Herbs, F	orbs and Grasses	0	0	0	0	0		Herbs,	Forbs and Grasses	0	0	0	0	0		Herbs	Forbs and Grasses	0	0 () (C)	0	
Bare	ground	0	0	②	0	0		Bare	ground	0	0	0	0	0		Bar	re ground	0	0 (D (3	0	
Lit	ter, duff	0	0	0	①	0		Li	tter, duff	0	0	2	0	0		L	itter, duff	0	0 (D	<u> </u>	0	
	Rock	0	0	0	0	0			Rock	0	0	0	0	0			Rock	0	0 (D	3	0	
	Water	0	0	0	0	0			Water	0	0	0	0	0			Water	0	0 (5 (<u>ا</u>	0	
	ibmerged egetation		0	②	3	0			ubmerged	0	0	0	0	0			Submerged Vegetation	0	0 (3	0	
		_	e/Ab	send	e - (Confi	rm that						ce an	d an	unfilled	bubble indic		nce by	y filling	this	bub	ble.	5
Resi	dential	and	Urba	an Si	tress	sors			becau becau	So	no	+	com	plete	0	Alzine in	Agricultu	ıral &	Rura	l Str	ress	ors	
Fill bubble	e if prese	ent - F	Plot	1	2	3	Flag	Fill but	4014		Pi	0+	is	in	g	Fill bubble	e if presen	t - Plo	ot 1		2	3	Flag
Road - gra	vel			0	0	0		Ditche	7		501	2 €.			F	Pasture/Ha	ay		(0	0	0	THE REAL PROPERTY.
Road - two	lane	TO.		0	0	0		Dike/E								Range			(0	0	0	
Road - fou	ır lane			0	0	0		Wate								Row Crops			(0	0	0	
Parking Lo	ot/Pavem	ent	98	0	0	0		Exce								Fallow Fiel	.D)	1000	G () (0	0	
Golf Cours	se		cape-sup-	0	0	0		Fill/Spoil B				1				Fallow Field SHRUBS, TRE		ASS,	() (0	0	
Lawn/Parl	(4		0	0	0		(UNVEGETATED)						0	1	Nursery			() (0	0	
Suburban	Residen	tial		0	0	0		Soil Loss/Root Exposure					0	0		Dairy	(-	-	0			
Urban/Mu	Itifamily			0	0	0		Wall/Riprap O					0	0		Orchard) (0	0	
Landfill		MA		0	0	0		Inlets, Outlets O O						0		Confined A	_	_	_	0			
Dumping	00			0	0	0		Point Source/Pipe (EFFLUENT OR STORMWATER)					0	0		Rural Residential			_	_		0	
Trash			Harl	0	0	0		Impervious surface input (SHEETFLOW)				0	0	0		Gravel Pit						0	
Other:				0	0	0		Other:				0	0	0		Irrigation			-		-	0	
Other:		Laure Control		0	0	0		Other:		ole se		0	0	0		Other:			() (<u> </u>	0	
Indu	strial D	evelo	opme	ent S	tres	SOL	5			178		1	labit	at/V	egetat	tion Stress	sors						
FIII bubble	if prese	ent - F	Plot	1	2	3	Flag	Fill bubble	if prese	nt - F	Plot	1	2	3	Flag	Fill bubb	le if prese	nt - P	lot	1	2	3	Flag
Oil Drilling				0	0	0		Forest Clea	r Cut			0	0	0		Herbicide U	lse		() (0	0	
Gas Wells				0	0	0		Forest Sele	ctive Cut		M.	0	0	0		Mowing/Shi	rub Cutting		() (0	0	
Mine (surf	ace)			0	0	0		Tree Planta	tion	319	7	0	0	0	,	Trails) (0	0	
Mine (und	erground)		0	0	0		Tree Canop	y Herbivo	ory		0	0	0		Soil Compa (ANIMAL OR H			(0	0	0	
Military OOO							Shrub Laye		d		0	0	0		Offroad veh	-	ge	(5 0	0	0		
Others O O O Hi						Highly Graz	ed Grass	ses		0	0	0		Soil erosion (FROM WIND, WATER,						0			
Other Recently Bu							est		0	0	0		OR OVERUSE Other:				-	-	0				
Others O O Recently Bu						ımed Gra	sslar	nd	0	0	0		Other:					+	0				
	ag codes:	K = N	lo me				, U = S	(BLACKENED)	urement	F1,F2	, etc.					y each field c	rew.						
	uffer San			2000	/27/2	Exp		ags in comm										2	4281	೦೮೨	04		

• FO	RM	B-1	1: E	BUFF	ER SAMPLE PLOTS -	TAF	RGE	TEI	D ALI	EN SPECIES (Back) Reviewed by	(Initia	i):		•
Site ID:						DAT	E: _		/_	/				
O Confirm	a fille	ed da	ıta bı	ubble i	ndicates presence and an unf	illed l	bubbl	e inc	dicates	absence by filling in this bubl	bie			
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	0	0	0		Purple Loosestrife	0	0	0		Johnson Grass	0	0	0	
Water hyacinth	0	0	0		Knotweed	0	0	0		Kudzu	0	0	0	
Yellow Floating Heart	0	0	0		Japanese Knotweed	0	0	0		Multiflora Rose	0	0	0	
Giant Salvinia	0	0	0		Perennial Pepperweed	0	0	0		Common Buckthorn	0	0	0	
Garlic Mustard	0	0	0		Giant Reed	0	0	0		Himalayan Blackberry	0	0	0	
Poison Hemlock	0	0	0		Cheatgrass	0	0	0		Tamarisk	0	0	0	
Mile-A-Minute Weed	0	0	0		Reed Canary Grass	0	0	0		Other:	0	0	0	
Birdsfoot Trefoil	0	0	0		Common Reed	0	0	0	-	Other:	0	0	0	
Canada Thistle	0	0	0		Leafy Spurge	0	0	0		Other:	0	0	0	
	449					123	PIE	TQ.		Other:	0	0	0	
		0.0	104		PLOT COOR	DINA	TES	6	1351		1			
O AA CENTER O N Latitude	13	o s		O E3	O W3 O Nearest pra	Lor	ngitu	de V	on (flag	g and comment below)				
Flag Comments					000 500 1101									
	7													
10 × 20 1	T						7							
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									CASCO					
										796	5662	354	8	

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

	FORM B-1: BUFFER SAMPLE PLOTS (Front) Reviewed by (initial): DATE:																						
Site ID:	:														DATE	i:	1	/					
Location	1:	HE		1689	KER				Fill	in b	ubb	le(s) if p	lot(s) cou	uld not be	sample	ed a	nd fl	ag -	→	Г	
O AA Ce	nter	C	N	0	S	01	E O	W		lot '		100	Plot			Plot 3							
Fill in bubbles for Strata Section:								s; E = Evergre		ype: E	= Bn	padlea	f; N =	Need	 le Leaf. /			vy (40)-75%)	; 4 = \	/ery H	eavy	(>75%)
Buffer C	anopy	/ Тур	e: 🕞) () A	bsen	t: O	Buffer	Canop	у Тур	e: () () AI	sen	t: O	Buffer	Canopy	Тур	e: 💿	(E)) At	sent	: O
Plot 1	Lea	f Тур	e: 🕞) (- 1222	Flag	Plot 2	Lea	f Typ	e: () (Flag	Plot 3	Leaf	Туре	e: (Đ	0		2	Flag
Big Trees (>0.3	m DBH)	0	0	②	0	0		Big Trees (>	0.3m DBH)	0	0	(3)	0	0		Big Trees	(>0.3m DBH)	0	0	0	①	0	
mall Trees (<0.3	m DBH)	0	0	0	0	0		Small Trees (<0.3m DBH	0	0	0	0	0		Small Trees	(<0.3m DBH)	0	0	0	0	0	
Woody Shrubs, Sa (0.5m-5m		0	0	3	0	0		Woody Shrub (0.5m	s, Saplings -5m HIGH)	0	0	0	0	0			ubs, Saplings im-5m HIGH)	0	0	0	0	0	
Woody Shrubs, Sa (<0.5m		0	0	0	0	0		Woody Shrub: (<0	s, Saplings).5m HIGH)	0	0	0	0	0			bs, Saplings <0.5m HIGH)	0	0	0	0	0	
Herbs, Forb	s and asses	0	0	0	0	0		Herbs, F	orbs and Grasses	0	0	0	0	0		Herbs	Forbs and Grasses	0	0	0	0	0	
Bare gr	ound	0	0	0	0	0		Bare	ground	0	0	(2)	0	0		Bar	re ground	0	0	0	0	0	
Litter,	, duff	0	0	0	0	0		Lit	tter, duff	0	0	0	0	0		L	itter, duff	0	0	0	0	0	
F	Rock	0	0	2	0	0			Rock	0	0	0	0	0			Rock	0	0	0	0	0	
V	Vater	0	0	2	0	0			Water	0	0	0	0	0			Water	0	0	0	<u> </u>	0	
	nerged etation	0	0	②	①	0			ubmerged egetation	0	0	②	0	0			Submerged Vegetation	0	0	0	0	0	Till
		ence	e/Ab	senc	e - (Confi	rm that			ndica	tes p	esen	ce an	d an	unfilled	l bubble indi			by filli		s bul	ble.	0
Reside	ntial	and	Urba	an St	tres	sors			Hydrolo	gy S	tres	sors	AIT				Agricultu	ıral d	& Ru	ral S	tres	sors	
Fill bubble if	prese	nt - F	Plot	1	2	3	Flag	Fill bubble	if prese	ent - F	Plot	1	2	3	Flag	Fill bubble	if presen	t - P	lot	1	2	3	Flag
Road - grave	ı			0	0	0		Ditches, C	hanneliza	ation		0	0	0		Pasture/Ha	ay			0	0	0	
Road - two la	ine			0	0	0		Dike/Dam/		Bed		0	0	0		Range	a cilippi			0	0	0	
Road - four lane OOO							Water Leve		l Stru	cture	0	0	0		Row Crops	Minute.			0	0	0		
Parking Lot/F	avem	ent		0	0	0		Excavation	, Dredgir	ng		0	0	0		Fallow Field ROW CROP FIELD	D)		NG	0	0	0	
Golf Course				0	0	0		Fill/Spoil B				0	0	0	- 10	Fallow Field SHRUBS, TRE		ASS,		0	0	0	
Lawn/Park	Airy.			0	0	0		Freshly Deposited Sediment (UNVEGETATED)				0	0	0		Nursery				0	0	0	
Suburban Re	esident	tial		0	0	0		Soil Loss/Root Exposure				0	0	0	-	Dairy				0	0	0	
Urban/Multifa	amily			0	0	0		Wall/Riprap					0	0		Orchard				0	0	0	
Landfill				0	0	0		Inlets, Outlets				0	0	0		Confined Animal Feeding Rural Residential				0	0	0	
Dumping				0	0	0		Point Source/Pipe (EFFLUENT OR STORMWATER) Impervious surface input				0	0	0		Rural Residential				0	0	0	
Trash			4.7-	0	0	0		(SHEETFLOW)	,, iput		0	0	0		Gravel Pit				0	0	0	
Other:	ALTERNATION.			0	0	0		Other:				0	0	0		Irrigation				0	0	0	
Other:				0	0	0		Other:	0 50 50	0,955		0	0	0		Other:	F 40 100 1			0	0	0	
Industr				ent S	tres	son								at/V		tion Stress	sors						
Fill bubble if	prese	nt - F	Plot	1	2	3	Flag	Fill bubble	if preser	nt - F	lot	1	2	3	Flag	Fill bubb	le if prese	nt - I	Plot	1	2	3	Flag
Oil Drilling				0	0	0		Forest Clea	r Cut		224000	0	0	0		Herbicide U	se			0	0	0	
Gas Wells				0	0	0		Forest Selec	ctive Cut			0	0	0		Mowing/Shi	rub Cutting			0	0	0	
Mine (surface	∍)			0	0	0		Tree Planta	- Hotti			0	0	0		Trails				0	0	0	
Mine (underg	round)		0	0	0		Tree Canop (INSECT)	Allense			0	0	0		Soil Compa (ANIMAL OR H				0	0	0	-46
Military				0	0	0		Shrub Layei (WILD OR DOM	IESTIC)		dili	0	0	0		Offroad veh				0	0	0	
Other:				0	0	0		Highly Graz	HIGH)			0	0	0	1	Soil erosion OR OVERUSE		D, WA	TER,	0	0	0	
Other:	1			0	0	0		Recently Bu Canopy			W	0	0	0		Other:				0	0	0	
Other:			1	0	0	0		Recently Bu (BLACKENED)	med Gra	sslar	ıd	0	0	0		Other:				0	0	0	4
Fiag c	codes:	K = N	lo me	asure	ment	made	. U = S	uspect measu	rement.,	F1,F2	, etc.	= mis	c. flag	s ass	igned b	y each field cı	rew.	100					

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

Buffer Sample Plots 05/27/2011



						DAT	E: _			Reviewed by	, (initia	F		
O Confirm	a fille	ed da	ıta bı	ubble i	ndicates presence and an unf	illed	bubbl	e ind	dicates	absence by filling in this bubl	ble			
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	0	0	0		Purple Loosestrife	0	0	0		Johnson Grass	0	0	0	
Water hyacinth	0	0	0		Knotweed	0	0	0		Kudzu	0	0	0	
Yellow Floating Heart	0	0	0		Japanese Knotweed	0	0	0		Multiflora Rose	0	0	0	
Giant Salvinia	0	0	0		Perennial Pepperweed	0	0	0		Common Buckthorn	0	0	0	
Garlic Mustard	0	0	0		Giant Reed	0	0	0		Himalayan Blackberry	0	0	0	
Poison Hemlock	0	0	0		Cheatgrass	0	0	0		Tamarisk	0	0	0	
Mile-A-Minute Weed	0	0	0		Reed Canary Grass	0	0	0		Other:	0	0	0	
Birdsfoot Trefoil	0	0	0		Common Reed	0	0	0		Other:	0	0	0	
Canada Thistle	0	0	0		Leafy Spurge	0	0	0		Other:	0	0	0	
										Other:	0	0	0	
WALLEY CONTROL OF THE OWNER.				1336	PLOT COORI	DINA	TES	1450						
	- 27 - 4		S. 57		ssible or at the center of the last					rdinates of the nearest practical	ne loc	Г	Fla	
either placed as close to the Location of coordinat O AA CENTER O N	es (c 13	hoo:	se o		sible or at the center of the last	acce	ssible	Buff	er Plot.		ile ioc			
either placed as close to the Location of coordinat	es (c 13	hoo:	se o	ne):	O W3 O Nearest pra	ctica	ble lo	e Buffi	er Plot.		ne roc			
either placed as close to the Location of coordinat O AA CENTER O N	es (c 13	hoo:	se o	ne):	sible or at the center of the last	ctica	ble lo	e Buffi	on (flag		ne roc			
either placed as close to the Location of coordinat O AA CENTER O N Latitude	es (c	hoo:	se o	ne):	O W3 O Nearest pra	ctica	ble lo	e Buffi	on (flag		ne roc			
either placed as close to the Location of coordinat O AA CENTER O N	es (c	hoo:	se o	ne):	O W3 O Nearest pra	ctica	ble lo	e Buffi	on (flag		ne roc			
either placed as close to the Location of coordinat O AA CENTER O N Latitude	es (c	hoo:	se o	ne):	O W3 O Nearest pra	ctica	ble lo	e Buffi	on (flag		ine roc			
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either placed as close to the Location of coordinat O AA CENTER O N Latitude	es (c	hoo:	se o	ne):	O W3 O Nearest pra	ctica	ble lo	e Buffi	on (flag		Ne loc			
either placed as close to the Location of coordinat O AA CENTER O N Latitude	es (c	hoo:	se o	ne):	O W3 O Nearest pra	ctica	ble lo	e Buffi	on (flag		Ne loc			
either placed as close to the Location of coordinat O AA CENTER O N Latitude	es (c	hoo:	se o	ne):	O W3 O Nearest pra	ctica	ble lo	e Buffi	on (flag		Ne loc	auoii		
either placed as close to the Location of coordinat O AA CENTER O N Latitude	es (c	hoo:	se o	ne):	O W3 O Nearest pra	ctica	ble lo	e Buffi	on (flag		Ne loc			
either placed as close to the Location of coordinat O AA CENTER O N Latitude	es (c	hoo:	se o	ne):	O W3 O Nearest pra	ctica	ble lo	e Buffi	on (flag					

05/27/2011

Buffer Sample Points - Targeted Alien Species

							1									N						
							FOF	RM B-1:	BUFF	ER	SAN	NPL	E PI	LOT	S (F	ront)		Reviewed I	y (initial):		
Site	D:														DATE	:	1	1			7	
Location	on:	-49	74.50			14			Fill	in b	ubb	le(s	if p	lotís	s) cou	ild not be	sample	ed and	flag -	→	_	Te
OAAC		0	N	0	S	OE	E 0	w		lot '			Plot			Plot 3						
									Buffer			Cov	er St	trata	3							- 10
																Absent: No tree oderate(10-40%		vy (40-759	6); 4 = \	/ery H	eavy (>75%)
Buffer	Canopy	/ Typ	e: (•) () AI	bsen	t: ()	Buffer	Canopy	v Tvp	e: (•) () At	sent	: (Buffer	Canopy	Type: () (i) Ab	sent	: 0
Plot 1		f Typ	$\stackrel{\sim}{\sim}$) (Flag	Plot 2	<u> </u>	f Typ	\Rightarrow	<u> </u>	_		Flag	Plot 3		Type: (<u>- </u>	_		Flag
Big Trees (>	0.3m DBH)	0	0	①	0	0		Big Trees (>0.3m DBH)	0	0	2	0	0		Big Trees	(>0.3m DBH)	00	0	0	0	-
Small Trees (<	0.3m DBH)	0	0	①	0	0		Small Trees (<0.3m DBH)	0	0	0	0	Ō		Small Trees	(<0.3m DBH)	00	+-	0	0	
Woody Shrubs	, Saplings 5m HIGH)	0	0	(2)	0	0		Woody Shrub (0.5n	s, Saplings r-5m HIGH)	0	0	0	0	0			bs, Saplings m-5m HIGH)	00	0	0	0	
Woody Shrubs		0	0	0	0	0		Woody Shrub		0	0	<u>3</u>	0	Ō		Woody Shru		00	+-	0	0	
	orbs and Grasses	0	0	(2)	0	0			Forbs and Grasses	0	0	<u>(1)</u>	0	0			Forbs and Grasses	00	+=	0	0	
Bare	ground	0	0	②	0	0		Bare	ground	0	0	<u>(1)</u>	0	Ō		Ban	e ground	00	0	①	0	
Litt	ter, duff	0	0	(2)	①	0		Li	tter, duff	0	0	<u>0</u>	0	Ō		L	itter, duff	00	+=	0	0	
	Rock	0	0	<u> </u>	<u></u>	0			Rock	0	0	2	0	0			Rock	00	+ =	0	0	_
	Water	0	0	<u>0</u>	0	0			Water	0	$\overline{\odot}$	<u>0</u>	0	0	-	=	Water	00	+ -	0	0	
	bmerged egetation	0	$\overline{\odot}$	(2)	<u>(1)</u>	0			ubmerged /egetation	0	0	<u>(1)</u>	0	$\overline{\odot}$			Submerged	00	+=	0	0	
10 7 7-1-1			e/Ab	senc	_	Confi	rm that			_	tes pr		ce and	dan	unfilled	bubble indic			lling th	is but	ble.	0
Resi	dential	and	Urba	an Si	ress	sors			Hydrolo	gy S	tres	sors		177			Agricult	ıral & R	ural S	tres	sors	
Fill bubble	if prese	ent - F	Plot	1	2	3	Flag	Fill bubble	e if prese	nt - I	Plot	1	2	3	Flag	Fill bubble	if preser	t - Plot	1	2	3	Flag
Road - gra	vel	40	WHI.	0	0	0		Ditches, C	hanneliza	ition		0	0	0		Pasture/Ha	y		0	0	0	
Road - two	lane			0	0	0		Dike/Dam/		Bed		0	0	0		Range			0	0	0	a Telefia
Road - fou	ır lane		10	0	0	0		Water Lev		l Stru	cture	0	0	0		Row Crops			0	0	0	
Parking Lo	t/Pavem	ent		0	0	0	1	Excavation	n, Dredgir	ng		0	0	0		Fallow Field	D)	TERST TO	0	0	0	
Golf Cours	se			0	0	0		Fill/Spoil B				0	0	0		Fallow Field SHRUBS, TRE		ASS,	0	0	0	
Lawn/Park		1360		0	0	0		Freshly De		Sedin	ent	0	0	0		Nursery			0	0	0	
Suburban	Residen	tial		0	0	0		Soil Loss/i	Root Expo	sure		0	0	0		Dairy	100		0	0	0	
Urban/Mul	tifamily			0	0	0		Wall/Ripra	р			0	0	0		Orchard			0	0	0	
Landfill			201	0	0	0		Inlets, Out Point Sour			-18	0	0	0		Confined A		ding	0	0	0	-
Dumping				0	0	0		(EFFLUENT O	OR STORMV			0	0	0		Rural Resid	dential		0	0	0	
Trash				0	0	0		(SHEETFLOV		При		0	0	0		Gravel Pit			0	0	0	
Other:		47-20		0	0	0		Other:			=	0	0	0		Irrigation			0	0	0	
Other:	1210000		affile.	0	0	0		Other:	(125 km)			0	0	0	V 6 1	Other:		- 17-02	0	0	0	n de la la
	strial De	77 100		ent S										1915		tion Stress						
Fill bubble		nt - F	Plot	1	2	3	Flag	Fill bubble	if preser	nt - F	Plot	1	2	3	Flag	Fill bubb	le if prese	ent - Plo	1000	2	3	Flag
Oil Drilling				0	0	0		Forest Clea	r Cut			0	0	0		Herbicide U	THE SECOND SECON		0	0	0	
Gas Wells				0	0	0		Forest Sele	ctive Cut			0	0	0		Mowing/Shr	ub Cutting)	0	0	0	
Mine (surfa	ace)			0	0	0		Tree Planta				0	0	0		Trails Soil Compa	-41		0	0	0	
Mine (unde	erground)		0	0	0		Tree Canop (INSECT)				0	0	0	4	(ANIMAL OR HI			0	0	0	
Military				0	0	0	- 3	Shrub Laye (WILD OR DO)	MESTIC)			0	0	0		Offroad veh			0	0	0	-
Other:				0	0	0		Highly Graz (OVERALL <3"	HIGH)			0	0	0		Soil erosion OR OVERUSE)		ID, WATER	0	0	0	-
Other:				0	0	0		Recently Bu Canopy				0	0	0		Other:			0	0	0	
Other:				0	0	0		Recently Bu (BLACKENED)		sslar	nd	0	0	0		Other:			0	0	0	
	a codes.	K = N	lo mo	201170	ment	made				E4 E2	etc	- mie	o flag	e seci	igned by	v each field cr	TOW				7	190

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

Buffer Sample Plots 05/27/2011

2428168304



Site ID:						DAT	E: _		/	/				
O Confirm a	a fille	ed da	ta bı	ıbble i	ndicates presence and an unf	illed i	bubbl	e inc	dicates	absence by filling in this bubl	ble			
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	0	0	0		Purple Loosestrife	0	0	0		Johnson Grass	0	0	0	
Water hyacinth	0	0	0		Knotweed	0	0	0		Kudzu	0	0	0	
Yellow Floating Heart	0	0	0		Japanese Knotweed	0	0	0		Multiflora Rose	0	0	0	
Giant Salvinia	0	0	0		Perennial Pepperweed	0	0	0		Common Buckthorn	0	0	0	
Garlic Mustard	0	0	0		Giant Reed	0	0	0		Himalayan Blackberry	0	0	0	
Poison Hemlock	0	0	0		Cheatgrass	0	0	0		Tamarisk	0	0	0	
Mile-A-Minute Weed	0	0	0		Reed Canary Grass	0	0	0		Other:	0	0	0	
Birdsfoot Trefoil	0	0	0		Common Reed	0	0	0		Other:	0	0	0	
Canada Thistle	0	0	0		Leafy Spurge	0	0	0		Other:	0	0	0	
	Hal									Other:	0	0	0	
	6,6		500		PLOT COORI	NINA	TES				HIE		NO	
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Buffer Sample Points - Targeted Alien Species 05/27/2011

		garan.					FOR	RM B-1:	BUFF	ER	SAI	/IPL	E P	LOT	S (F	ront)	5 5 1	Reviewe	d by (initia	l):		
Site I	D:														DATE	E:	1	1			h	
Locatio	on:	538	1788		158				Fill	in b	ubb	le(s)	if p	lot(s	s) cou	ıld not be	sample	ed and	d flag	→		9
OAAC	enter	C	N	0	S	OE	0	W	OF	lot '	1	01	Plot	2	OF	Plot 3						
Fill in bubble Strata Section	s for all th	nat app	oly: Ca oriate c	nopy cover o	Type:	D = D	eciduou for eacl	s: E = Everare	Buffer een. Leaf T or each plo	voe: E	B = Bro	oadlea	f: N = I	Needl	e Leaf. A	Absent: No tree oderate(10-409	e canopy. %); 3 = Hea	vy (40-7	5%); 4 =	Very H	eavy ((>75%)
Buffer	Canopy	у Тур	e: (•) () AI	oseni	: ()	Buffer	Canop	v Tvp	e: (•	<u> </u>) At	seni	t: ()	Buffer	Canopy	Type:	(i)) At	sent	: 0
Plot 1		f Typ	<u>~</u>		5		Flag	Plot 2	<u> </u>	f Typ	$\stackrel{\sim}{=}$	$\stackrel{\sim}{=}$			Flag	Plot 3		Type:	$\stackrel{\sim}{\sim}$	-		Flag
Big Trees (>	0.3m DBH)	0	0	0	0	0		Big Trees (>0.3m DBH)	0	0	0	0	<u> </u>		Big Trees	(>0.3m DBH)	0	<u> </u>	0	0	
mall Trees (<	0.3m DBH)	0	0	0	0	0		Small Trees (<0.3m DBH)	0	0	0	0	0		Small Trees	(<0.3m DBH)	0	D 0	0	0	
Woody Shrubs	, Saplings 5m HIGH)	0	0	<u>(1)</u>	①	0		Woody Shrub	s, Saplings 1-5m HIGH)	0	0	②	0	<u></u>			bs, Saplings m-5m HIGH)	0	10	0	0	
Woody Shrubs		0	0	②	0	0		Woody Shrub		0	0	<u>(1)</u>	0	Ō		Woody Shru		0	0	0	Ō	
Herbs, F	<u> </u>	0	0	<u></u>	0	0			Forbs and Grasses	0	0	<u>0</u>	0	Ŏ			Forbs and Grasses		0	0	Ō	
	ground	0	Ō	<u>3</u>	0	0		Bare	ground	0	0	<u>0</u>	0	$\overline{\odot}$		Bar	e ground	1= 1	10	0	Ŏ	
Litt	er, duff	0	Ō	<u>0</u>	<u>0</u>	0		Li	tter, duff	0	0	0	0	$\overline{\odot}$		L	itter, duff		0	Ō	Ō	
	Rock	0	Ō	0	<u> </u>	0	-		Rock	0	0	<u>0</u>	0	$\overset{\smile}{\odot}$			Rock		00	0	Ō	
	Water	0	Ō	0	$\frac{\check{\bullet}}{\odot}$	0			Water	0	\odot	0	ŏ	$\frac{\circ}{\circ}$			Water	-	00	0	0	
	bmerged	0	Ō	<u>0</u>	0	0			ubmerged	0	0	<u></u>	0	$\frac{\circ}{\circ}$			Submerged Vegetation		<u> </u>	0	$\tilde{\odot}$	
	egetation or Pres						m that		egetation bubble is						l unfilled	bubble indic			<u> </u>			0
	dential					HELLI.			Hydrolo	2000							Agricult					
ill bubble				1	2	3	Flag	Fill bubble				1	2	3	Flag					2	3	Flag
Road - gra				0	0	0		Ditches, C		N. ST.		0	0	0		Pasture/Ha	v		0	0	0	
Road - two				0	0	0		Dike/Dam/	Road/RR			0	0	0		Range		1,000	0	0	0	
Road - fou	r lane			0	0	0		(IMPEDE FLC Water Lev		l Stru	cture		0	0		Row Crops			0	0	0	74
Parking Lo	t/Pavem	ent		0	0	0		Excavation	ı, Dredgir	ng		0	0	0	- 1	Fallow Field		RESTING		0	0	
Golf Cours	e			0	0	0		Fill/Spoil B	anks		A C	0	0	0		Fallow Field	d (OLD - GR	ASS,	0	0	0	
Lawn/Park	زاراتها			0	0	0	m**	Freshly De		Sedim	ent	0	0	0		Nursery			0	0	0	1.
Suburban	Residen	tial	104	0	0	0	4	Soil Loss/F		osure		0	0	0	TE I	Dairy			0	0	0	1
Urban/Mult	tifamily			0	0	0		Wall/Ripra	р			0	0	0		Orchard			0	0	0	FI
Landfill				0	0	0		Inlets, Out				0	0	0		Confined A	nimal Fee	ding	0	0	0	
Dumping				0	0	0		Point Sour (EFFLUENT C	OR STORMV	VATER	()	0	0	0		Rural Resid	dential		0	0	0	
Trash				0	0	0		Impervious (SHEETFLOW		input	3-72	0	0	0		Gravel Pit			0	0	0	
Other:				0	0	0		Other:				0	0	0		Irrigation			0	0	0	
Other:				0	0	0		Other:				0	0	0		Other:			_ 0	0	0	
Indus	strial De	evelo	pme	ent S	tres	sors						I	labit	at/V	egeta	tion Stress	ors					
ill bubble	if prese	ent - F	Plot	1	2	3	Flag	Fill bubble	if prese	nt - F	Plot	1	2	3	Flag	Fill bubb	le if pres	ent - Pl	ot 1	2	3	Flag
Oil Drilling				0	0	0		Forest Clea	r Cut			0	0	0		Herbicide U	se		0	0	0	
Gas Wells				0	0	0		Forest Sele	ctive Cut			0	0	0		Mowing/Shr	ub Cutting	9	0	0	0	
Mine (surfa	ice)			0	0	0		Tree Planta	tion			0	0	0		Trails			0	0	0	
Mine (unde	erground)	1	0	0	0		Tree Canop	y Herbivo	огу		0	0	0		Soil Compa			0	0	0	-
Military			938	0	0	0		Shrub Laye (WILD OR DON		d		0	0	0		Offroad veh	21.2 A T. D. A.	ge	0	0	0	
Other:			1	0	0	0		Highly Graz (OVERALL <3°	ed Grass	es		0	0	0		Soil erosion		ID, WATE		0	0	
Other:			TER	0	0	0		Recently Bu		est		0	0	0		OR OVERUSE) Other:			_ 0	0	0	
Other:				0	0	0		Canopy Recently Bu	ımed Gra	sslar	nd	0	0	0		Other:			0	0	0	
		_	1000		J			(BLACKENED)				0									0	

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

Buffer Sample Plots 05/27/2011

2428168304



Site ID:						DAT	E: _		_/_					
O Confirm	a fille	ed da	ta bu	ıbble iı	ndicates presence and an unf	illed I	oubbl	e Inc	licates	absence by filling in this bubl	ble			
ill 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	0	0	0		Purple Loosestrife	0	0	0		Johnson Grass	0	0	0	
Water hyacinth	0	0	0		Knotweed	0	0	0		Kudzu	0	0	0	
Yellow Floating Heart	0	0	0		Japanese Knotweed	0	0	0		Multiflora Rose	0	0	0	
Giant Salvinia	0	0	0		Perennial Pepperweed	0	0	0		Common Buckthorn	0	0	0	
Garlic Mustard	0	0	0		Giant Reed	0	0	0		Himalayan Blackberry	0	0	0	
Poison Hemlock	0	0	0		Cheatgrass	0	0	0		Tamarisk.	0	0	0	25
Mile-A-Minute Weed	0	0	0		Reed Canary Grass	0	0	0		Other:	0	0	0	
Birdsfoot Trefoil	0	0	0		Common Reed	0	0	0		Other:	0	0	0	
Canada Thistle	0	0	0		Leafy Spurge	0	0	0		Other:	0	0	0	
									18.50	Other:	0	0	0	
	TEU.	No.		YA SA	PLOT COORI	DINA	TES		NO.			150	Sec.	116
Plots are centered on the But lag box, and describe where	cesse fer Ti the c cente	ed, tal ranse coordi er of F	ke th ects a nate: Plot 3	e coord and the s were as pos	linates at the nearest practicabl coordinates will indicate the loc	ation section	of the	tran ow. T	sect. Fi	TRANSECT. This is important ill in the "nearest practicable locardinates of the nearest practicable.	ation"	bubb	le, fil	in th
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Woody Shrubs (0.5m-	, Saplings 5m HIGH)	0	0	②	0	0		Woody Shrubs (0.5m	s, Saplings -5m HIGH)	0	0	②	0	<u> </u>		Woody Shru (0.5	ubs, Saplings 5m-5m HIGH)	0	0	0	0	0	
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•	orbs and Grasses	1 0 1	0	①	0	0		Herbs, F	orbs and Grasses	0	0	0	0	<u> </u>		Herbs	Forbs and	0	0	0	0	0	
	ground	0	0	0	0	0		Bare	ground	0	0	0	0	<u> </u>		Bar	re ground	0	0	0	0	0	
Litt	er, duff	0	0	②	0	0		Lit	ter, duff	0	0	0	0	<u> </u>		L	itter, duff	0	0	0	0	0	
	Rock	0	0	②	0	0			Rock	0	0	①	0	0			Rock	0	0	0	0	0	
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			e/Ab:	senc	e - (Confi	rm that				tes p		ce and	d an	unfilled	bubble indi	Carting of the		y fillir		s but	ble.	0
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Fill bubble	if prese	ent - F	Plot	1	2	3	Flag	Fill bubble		-		1	2	3	Flag	Fill bubble	e if presen	t - Pl	ot	1	2	3	Flag
Road - gra	vel			0	0	0		Ditches, Cl	hanneliza	ation		0	0	0		Pasture/Ha	ey .			0	0	0	
Road - two	lane	228	3.1	0	0	0		Dike/Dam/		R Bed	-	0	0	0		Range				0	0	0	
Road - fou	r lane			0	0	0		Water Leve		l Stru	cture	0	0	0		Row Crops				0	0	0	
Parking Lo	t/Pavem	nent		0	0	0		Excavation	, Dredgii	ng	TP	0	0	0		Fallow Fiel		RESTIN	iG	0	0	0	
Golf Cours	e			0	0	0		Fill/Spoil B	anks			0	0	0		Fallow Fiel SHRUBS, TRE		ASS,		0	0	0	
Lawn/Park				0	0	0	72.5	Freshly De		Sedim	ent	0	0	0		Nursery		18		0	0	0	
Suburban i	Residen	itial		0	0	0		Soil Loss/F		osure	15	0	0	0		Dairy				0	0	0	
Urban/Mult	tifamily			0	0	0		Wall/Ripraj	р			0	0	0		Orchard		ALS:		0	0	0	
Landfill				0	0	0		Inlets, Outl			Pili	0	0	0		Confined A	nimal Fee	ding		0	0	0	
Dumping				0	0	0		Point Sour (EFFLUENT C	RSTORM			0	0	0		Rural Resid	dential			0	0	0	
Trash				0	0	0		Impervious (SHEETFLOW		input		0	0	0		Gravel Pit				0	0	0	
Other:				0	0	0		Other:				0	0	0		Irrigation				0	0	0	
Other:				0	0	0		Other:				0	0	0		Other:				0	0	0	
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Oil Drilling				0	0	0		Forest Clear	r Cut	1207		0	0	0		Herbicide U	lse			0	0	0	
Gas Wells				0	0	0		Forest Selec	ctive Cut			0	0	0		Mowing/Sh	rub Cutting			0	0	0	
Mine (surfa	ace)			0	0	0		Tree Plantat	tion			0	0	0		Trails				0	0	0	
Mine (unde	erground	1)		0	0	0		Tree Canop	y Herbivo	ory		0	0	0		Soil Compa (ANIMAL OR H				0	0	0	
Military				0	0	0		Shrub Layer (WILD OR DOM	Browse	d		0	0	0		Offroad veh	A STATE OF THE STA	ge		0	0	0	
Other:			Test	0	0	0		Highly Graze	ed Grass	ses		0	0	0		Soil erosion	(FROM WIN		TER,	0	0	0	
Other:				0	0	0		(OVERALL <3" Recently Bu		est		0	0	0		OR OVERUSE)			0	0	0	
Other:			-	0	0	0		Canopy Recently Bu	rned Gra	asslar	nd	0	0	0		Other:		-		0	0	0	
		W - N	- la ma	-				(BLACKENED)	rom ont	E4 E2	atc			021	igned b	v each field c	row	100		\subseteq	\subseteq		103

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

Buffer Sample Plots 05/27/2011

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				3011	ER SAMPLE PLOTS -	174	TO L		J ALI	Reviewed by	y (initia	l):		
Site ID:						DAT	E: _	10000	/ _	/				
O Confirm	a fille	ed da	ata b	ubble i	ndicates presence and an uni	illed	bubb	le inc	dicates	absence by filling in this bub	ble			
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	0	0	0	1-19-0-0111-	Purple Loosestrife	0	0	0	11,1-1-233-2	Johnson Grass	0	0	0	
Water hyacinth	0	0	0		Knotweed	0	0	0	-	Kudzu	0	0	0	
Yellow Floating Heart	0	0	0		Japanese Knotweed	0	0	0		Multiflora Rose	0	0	0	
Giant Salvinia	0	0	0		Perennial Pepperweed	0	0	0		Common Buckthorn	0	0	0	
Garlic Mustard	0	0	0		Giant Reed	0	0	0		Himalayan Blackberry	0	0	0	
Poison Hemlock	0	0	0		Cheatgrass	0	0	0		Tamarisk	0	0	0	
Mile-A-Minute Weed	0	0	0		Reed Canary Grass	0	0	0		Other:	0	0	0	
Birdsfoot Trefoil	0	0	0		Common Reed	0	0	0		Other:	0	0	0	
Canada Thistle	0	0	0		Leafy Spurge	0	0	0		Other:	0	0	0	
							Mg		FER	Other:	0	0	0	
		1005		1	PLOT COOR	DINA	ITES					177		
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Buffer Sample P	oints	- Tar	rgete	d Alien	Species 05/27/2011									