	ETROPARKS Plant Community Asse		AND AND ADDRESS OF THE PARTY OF
Project Label:	<u>PCAP</u>	Plot No	o: 1296 Date Sampled: 8-15-12 Lead: 1450
***			
Parking/Access out	side of Park Boundaries:	Ŷ N	Comment required if item answer is NO
Field journals comp		Y N	If yes, write details in Comments section below
Site sketch made or		N N	
Check cover page	X-axis Bearing of plot recorded	(Y) N	
Check cover page	GPS coords. Recorded		
		(Y) N	
	North direction recorded	Y N	
	Photographs taken?	(Y) N	
	ement on all pages?	N N	
Header data comple		(N) N	
	ded in all Intensive modules	N N	
Browse Level By S		N S	
Woody stem quality		SP N	
Invasive plant quali	ty control check	N (A)	
Ash trees mapped		Y N	
Cover by Strata? (co	onfirm cover type)	Y N	
Soil samples collect	ed with matching plot #.	Y N	
Vouchers labeled or	datasheet with initials and number	Y N	NIA
Vouchers labeled or	collection bag	Y N	NA
Pink flags removed		₹ N	
Data sheet QA before	re leaving site?	(y) N	
Common equipment returned to tub.		√ N	
Data sheets scanned	?	8-22-1	Enter date to left T
Final data sheets sca	nned?		Enter date to left
Buffer Widths meas	ured?	(Y) N	NZ 7-6-12
Web Soil Survey		₫ N	TK 8-17-12
Voucher Location	Refrigerator	YN	
# vouchers collected)	Press (#)		Enter number to left
	Drier	Y N	
	Identified	(Y) N	
	Mounted	YN	
	Thrown away	YN	
	Timown away	1 14	
ODTS	Aires Tenledon India	15-360	
. /	ation: Is plot sampleable?		
→ Yes	Original GRTS point is sampleable		
□ No	Original GRTS point lands in a non-		ill in category below)
	Point falls in a water (i.e. river,		
	☐ Managed mowed area (i.e. golf ☐ Paved area (i.e. parkinglot, road)	course, picnic area, rig	ni-oi-way)
	Unsafe to sample (i.e. steep slope	2)	
	□ Other		
dditional Comme	nts:		
Contact	Henry Merke O. Bux 200 Gates	1-440-	465-0833
.0	DRIN TO C too	Thille	H 44170

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet Plot Name: Rad 25+ up GENERAL INFORMATION vascul. Minimum required fields in Bold and Underlined TAXONOMIC STANDARD TAXONOMIC ACCURACY PLOT NOT SAMPLED: End date (if > 1 day) Plot No.: 129 Project Name: OMC2017 Very thorough Roles: Co-leader, Asst., Guide, Owner, Taxonomist, etc. tusinbech Level 4 (no nested corners sampled) modera. sampling. Hurried plots how much effort put into subjective evaluation of may still provide good Plot leader Pub Date: But Hass low o Other 1998 GPS location in plot x=0 to 5, y=-1,0,+1): Datum: ■ NAD83/WGS84 □ NAD27 ■ Lat/Long □ UTM □ StatePlane Source of coordinates 

MAP If data not public why □ Fuzz 100m □ Fuzz 250m □ Fuzz 500m Check one: w bublic data 

Private Dat Data Confidentiality: Landowner: (m' Local Place Names: LOCATION □ Random □ Stratified Random □ Transect component Plot placement: GRTS Plot size for cover data: 0.03 GPS File Name: 1296 A Coordinate system: Camera No.: 8 Photo Nos.: **Depth:** (1-5): Intensive modules: 2 3 8 9 2 3 (EDIT IF MODIFIE \*Definitions and values in CM PCAP FOM v. 1.0 and CVS Field Guide Systematic (grid) 

Capture specific feature 

Other X-axis Bearing of plot: Upper Ho C2-2082 (base of plot x=0, y=0) □ Representative ■ deg 🗆 deg min (hectares) + 25 NOTES: Include La rest (any upusual stape details), Location (directions and landscape content), Rationale (why here), and Veg Characterization (description of community, Ver Cher: Cemppt: Sugar maple, Beech, Tolip RWI Ouk, Busswood, Black Maple dominants, strata, BROWSE). Additional notes in space on back. Layout: 1×3 Location. Obtain permission from Henry Merkel to park in front of the barn on his property. Hoped south chown a Rutionale: GRTS pt We could only fit 3 mos Dlagram 

O

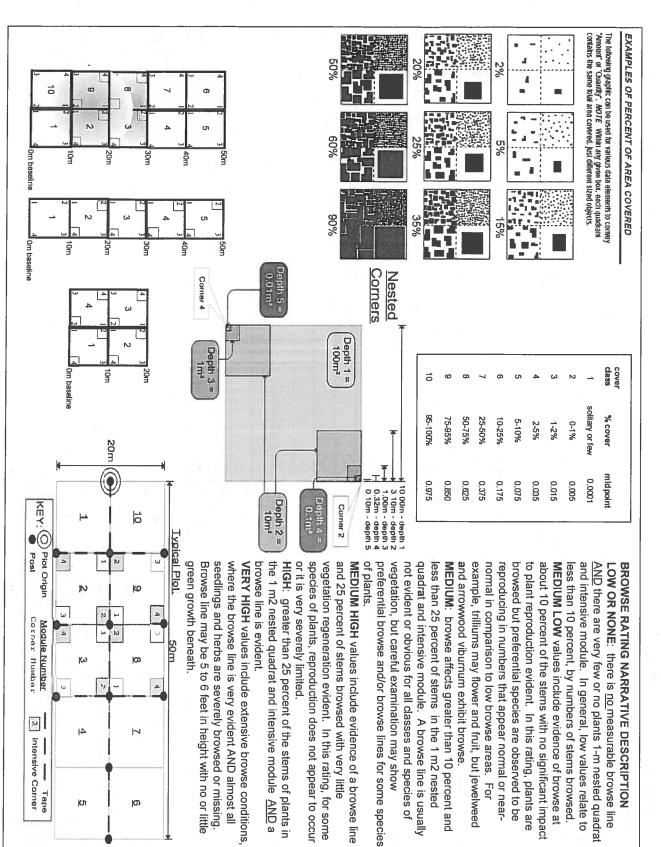
Plot origin 

GPS location 

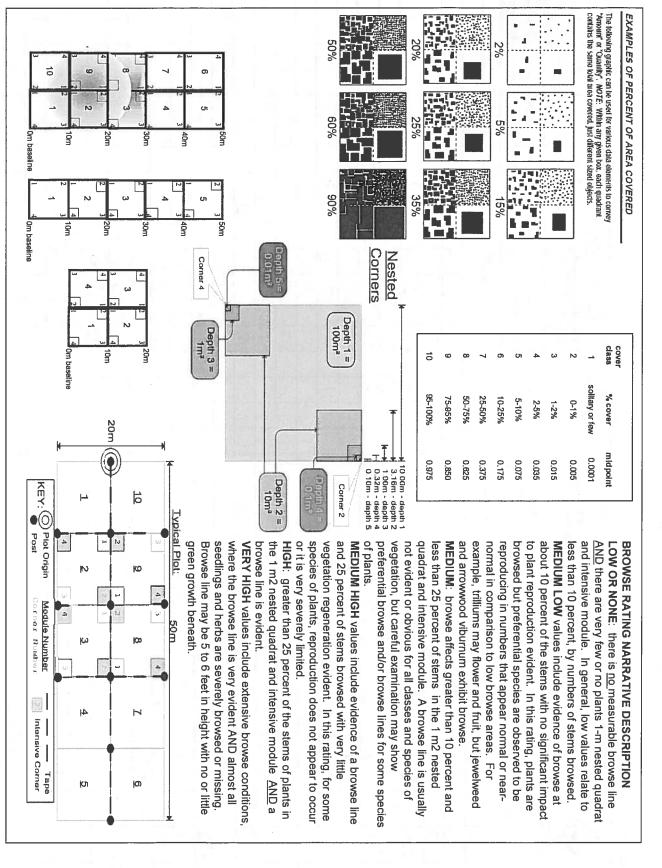
→ photo taken, with direction 

with direction Showb: Sugar mayor, Sport Bush, Beach Steep ravine. Follow stream wypyck Herb: Interrepted flyn, Christmas tem 250m to plot Not Stream on a terrace (B) Claryland Matry perh Page 1 of 2

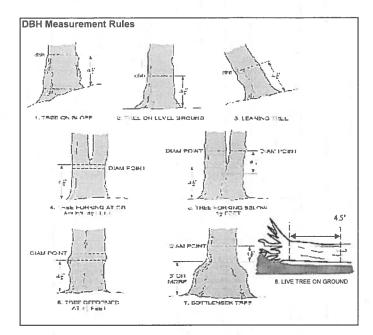
							+
Project Label:	Project Label: PCAP Project name: ON NCAO)	ent Project name: O NC2012	NC2012	Plot no.:	1296		Page of O
Total modules:	ω	Intensive modules:	Plot c	Plot configuration:	1X3	Plot are	Plot area (ha): OOS
Cleveland	Br = Browse Level. Use cover classes to describe amount of browse per species over	Estimate for each intensive module:  %open water 1	corner mod	comer mod corner mod  2 2 4 2  cov depth cov depth  1 0	cov depth	depth mod	corner mod corner mod corner mod corner  R R  cov depth cov depth cov depth cov
Strata - Cov. entire plot	enure proc	%unveg. ground (bare soil) 1 %unveg. litter (bare litter) 1	ALI (	مدر	 owc		
Т S H (F)(A) <b>Вг</b>	Species	c Voucher# depth	cov   depth	cov depth cov depth	cov depth	v depth cov depth	th cov depth cov depth cov
762	Hamamel	4	7 4	698	26	H	
		4	7	I C		<u> </u>	
L	Ager saccohrum	4	9 4	ナイン		2 P	
	V	W	I	32	2	ر پ	
20	žΛ	در	بر			ن ا ا	
در	C	ω	<u>رر</u>		<u>بر</u>		
	Querus rubra	2	2	9 4			
()	Polystichum acrosticre	2000	V.	U-	+1 4		
7 4 4	nnsylva	ω,	4	S	14		
	3 -	a)	هر ال	بو -	ک کا	2)	
٧	to pot	ير		(V)	2 - 2		
	-	2	نه	22	222		
2	physonum via	<b>Q</b> 3	2				
1-7 と	00	12 2-0-12	6	نہ	247		
ಖ	1	C2-2083-84 I	<u>ک</u>				
20	Coliders Stexicably	ಹಿ	ည က	w e	-	22	
\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\		Q v	) 1 2 2	23	2	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	
2	Durw	رو	ند	2	2-	\( \sqrt{1} \)	
, Jr	Osmunda Claytoniand		4	CHINE	22	نځ	
1 2 F F	taus grand		1	7294	8 H	7	
	Pronus Serotia						
2	Carpinus		ω				
دلم	Circasa Whotiana		ی	3			
2	Celastrus obinitatus		بو	2			
	ちっ		~				



•	1 071	Flojectiania	Toject hame.	Flotilio 100	30
Total modules:	3	Intensive modules:	3 Plot cor	Plot configuration: 1×3	Plot area (ha): O.D.S
⊗		Estimate for each intensive module:	mod comer mod comer	er mod comer mod comer  3 4 3 2  depth cov depth cov	mod corner mod corner
Cleveland Metroparks	describe amount of browse per species over entire plot	%unvegetated open water			
		%unveg. ground (bare soil)			
Strata - Cov. entire plot	Species	%unveg. litter (bare litter)	denth cov denth	denth row denth	cov dent
-	Vitis so (sonall	$\dashv$	- [	a copie	arbu:
<u> </u>	the liel so		9		-
2) 1			))	υ- - -	
(3) (2) (3)	Carus		- Q	23	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
	u		<u>မ</u>		
1	Sp.		<u>را</u> در		2
	Canad	2n 2			
יג	(seed line)		14 )	32	(u
	B C				
	Ink dia	C2-2085	_		
9	Empotions Sp.			-)	
ک	X	to phylloga	1 1	>111	2 2
			1 1	<u>\</u>	$\vdash$
5,	70.5			1 4	-   ( i
		S		1 1	
7	Aster laterisla			2)	
- 5 <sub>6</sub>	Z			22	
6	1			9 4	- 6
6	Tousa Canadonsis			36	15
					1 1
W	() mus amoricana				1 4
<i>در</i>	-				ىو
	۶_				ر ف
	Robinea psuleli				<u>ء</u> د
	Smilax his				
2aCM PCAP Species C		5/29/2012 ceh	210		Natural Resource Management FORM NR/2010-02a
	bracks elstran exection				



<u>ဂ</u>	LEV	CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet	vinnumity	Assessn	ent Pro	ram /	Vatural I	Voodv S	tem Dat	a Sheet						1	
		Project Label:	PCAP	•	Project	Name:	01 NC	Project Name: 01 NC 2012	_	Piot No.: 129	1296		Page:	_	<u>م</u>	Cienela	(P) Clevetand Metroparks
	_	Explain subsample (additional room on back):	S:						:								
	4			# stems	% sub	#	size class	size class (cm) woody stems >1.4m	y stems >	l.4m							
<u> </u>	mod #	species	voucher#	_		shrub	Ž -	1-<2.5	25-<5	57 ^1 0	5 10 - <15	6 - <20	70 - <25	25 - <30	30 - <35	10	11 >40 (record each tr
$\supseteq$		1509) Alan		_	_	ŀ		•		_	_	$\perp$	_				
¥		0															
	1	LECY DADROW															
		Acer sucharum							•								
		grylms carolinlana		i													
		tagus grands folto															
		The second															5.44
		Fraxinus pennsylvanica		6 6			•										
9.	2	Acer saccharum														0	52h
0	بو	tumetrelis Virginiana					•	5.0	•								
9 ,																	
0)	<u>ب</u>	Fraxinus permsylvanica		·							2				1		
	ع	Fagus grandifolio								• •							
o :	نع	Undera benzoin				87											
N 1	2	0															
	27	suga canadensis	SATURE														
	W	Acer n'grum															46.8
Ī	4	1					•										
6 13	CU)	0															
	W	tamemelis Virginiana					0 4	N									
	W	Roblnia pseudoacacla													W.	-	47.0
	W	Standing dead					٥	•									
	3/	Acer sacharum															Lum Lum
	8	traxinus peansulvanica								W.							
205																	



# 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.



R

С

D

E

# ASH CANOPY BREAKUP CONDITION (for dead trees):

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

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

CLEVELAND METROPARKS Emerald Ash Borer - Fraxinus Sheet Tree ID. 24 23 25 22 21 20 19 18 13 17 16 5 12 10 7 Fraxions permsylvina Project Label: PCAP Project Name: 6/NC 2012 io. (cm) D84 @ Ash \*Dead condition ASH Only #Exit Ep present O INTENSIVE MODULES ONLY Plot No.: 1296 Woodpecker holes Date: 8/15/2012 Baseline Map all ash trees ≥10cm in each module using Tree ID number \*\*\* Change intensive module numbers when necessary A Z Page: 1 of 2 20

\* 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)

# CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey



Tier 1: Early detection	/ Rapid response		Pre	sence		GPS	
		NE	SE	sw	NW		Presence
Microstegium vimineum	Japanese stiltgrass						X: yes
Ranunculus ficaria	Lesser Celandine		,				
Cynanchum louiseae (vine)	Black Swallow-wort						
	) Flowering Rush						
Heracleum mantegazzianum	Giant Hogweed						$\neg$
Tier 2: Assess a			# of	Plants	723	comments	
		NE	SE	sw	NW		# of Plant
Acer platanoides	Norway Maple						1: 1-10
Ailanthus altissima	Tree of Heaven						2: 11-50
Lonicera japonica (vine)	Japanese Honeysuckle						3: 51-10
Lythrum salicaria (wetland)						V.	4: 101-1,0
Aegopodium podagraria (G-cover)	+						5: >1,00
Celastrus orbiculatus (vine)			1	1			
Torilis sp.	Hedgeparsley		'				
Conium maculatum	Poison Hemlock						
Rhamnus cathartica	Common Buckthorn (shru	b)					
Berberis thunbergii	Japanese Barberry (shru				1	9₹E	
Alnus glutinosa	European Alder	-		+		a de la	
Dipsacus laciniatus	Cut-leaf Teasel	_	+			~	$\neg$
Elaeagnus umbellata	Autumn Olive (shrul	2)		<del>                                     </del>			
Lonicera maackii	Amur Honeysuckle (shrul						7
Euonymus fortunei	Wintercreeper	-	_	<del>                                     </del>			_
Tier 3: Presence			# of	Plants	PIEI	comments	
		NE	SE	sw	NW		# of Plant
Convallaria majalis (G-cover)	Lily of the Valley					A CONTRACTOR OF THE CONTRACTOR	1: 1-10
	Crown Vetch						2: 11-50
Eleutherococcus pentaphyllus	Five-leaf Aralia (shrul	2)					3: 51-10
	Japanese Pachysandra	7	<del></del>				4: 101-1,0
Philadelphus coronarius	Mock Orange (shru	b)				201	5: >1,00
	Lungwort		_				
Rubus phoenicolasius	Wineberry						$\neg$
	Yellow Flag Iris						
Ornithogalum umbellatum	Star of Bethlehem						7
Viburnum opulus var. opulus	European Cranberry (shruk	)		$\top$			_
Viburnum plicatum	Doublefile Viburnum (shruk						
Tier 4: Widespread			Pre	sence		comments	
		NE	SE	SW	NW		# of Plant
Alliaria petiolata	Garlic Mustard		1		1		1: 1-10
Ligustrum vulgare	Common Privet (shrub	)			1		2: 11-50
L. morrowii, L. tatarica	Bush Honeysuckles (shrub				1		3: 51-10
Phalaris arundinacea	Reed Canarygrass						4: 101-1,0
Phragmites australis (wetland)	Phragmites						5: >1,00
Polygonum cuspidatum	Japanese Knotweed		2	3			1
Frangula alnus	Glossy Buckthorn (shrub	)					
Rosa multiflora	Multiflora Rose (shrub			1			_
Typha angustifolia, T. x.glauca	Cattails (wetland)	<del>'   '</del>	+	+	1		-
Cirsium arvense	Canada thistle	+	+	+			_
Dipsacus fullonum	Common Teasel	+	_				
Hesperis matronalis	Dame's Rocket	1	1	+			-
		+	+-	+			-
Vinca minor (G-cover)	Trenwinke		<del>_</del>	٠-	للبل		

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

CLEVELAND METROPARKS Plant Community Assessment Program - Plant Cover and Earth Surface Project Label: PCAP Project Name: 0 | 0 | 2 0 | 2

Plot No.: 1296

(Cheveland Hebraparia Page: 1 of 1

STANDING BIOMASS (required for emergent wetlands); collected in 0 1m clip plots (32x32 cm) from comers 1 and 3 in each intensive module. Required for VIBI-E score calculation. C?=check when Module # collected S

CLASSIFICATION		
(FIT = excellent, g Fit and Confidence		
Hydrogeomorphic class (WETLANDS ONLY):		
DEPRESSION	## 	Conf≃
D IMPOUNDMENT D Beaver D Human	Fi	Conf=
D RIVERINE D Headwater D Mainstern D Channel	File	Conf±
D SLOPE (ground water hydrology or on a physical slop)	Fit=	Conf*
□ FRINGING □ Reservoir □ Natural Lake	File	Conf=
COASTAL (specify subclass)	19: 	Conf=
BOG (strongly, moderately, weekly ombrotrophic)	Fit=	Conf=
Ohio EPA VIBL Plant Community Class (WETLANDS ONLY):	ST.	
□ FOREST □ swamp forest □ bog forest □ forest seep	File 	Conf≃
□ EMERGENT □ marsh □ wet meadow □ open bog	- E	Conf*
□ SHRUB □ shrub swamp □ tall sh. bog □ tall sh. fen	티	Conf=

# MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only

Slope 1 = slight elevational grade across module (hill) tanks for microhabitat 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 wetland
- 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

				c.w.d coun	it for pieces with r	c.w.d count for pieces with minimum 1m length	
	no of	no of	по тасто	c.w.d	c,w,d	c.w.d	microhab
	tussocks	hummocks	depressions	(2-12 cm)	(12-40cm)	>40 cm	interspers.
		uplands (Tip-Ups)					
	depth 3	depth 2	depth 1	depth 1	depth 1	depth I	depth I
	lxlm	3 16x3 16m	10x10m	10×10m	10x10m	10x10m	10x10m
mod# corner	(count)	(count)	(count)	(count)	(count)	(count)	(rank)
-	Ø	0	2	2	Ø	R	W
2 -	0	0.	7	5	-	_	ω
3 -	Q)	0	$\sim$	6	Ø	Ø	w
_							
							-

McNAB INDICES (degrees) + for up - for down  [FILLED OUT USING GIS PROGRAM - DO NOT FILL OUT IN FIELD]  D: LFI* TSI**  LFI  At aspect N LFI*		NE SE SE NE	+45 degrees +90 degrees +135 degrees +180 degrees +225 degrees +270 degrees +315 degrees	Conf:=	CTTNO Lite   Lite   Li	runel Fire slop) Fire slop) Fire phic) Fire Fire Fire Fire
Fix Confe	+		n aspect	, (	; ;	
MCNAB INDICES (degrees) + for up - for dow (FILLED OUT USING GIS PROGRAM - DO NOT FILL OU	-	z	Åt aenoci	Confr	TI.	7
McNAB INDICES (degrees) + for up - for dow	M - DO NOT FILL OUT	IS PROGRAM	[FILLED OUT USING G			
	for up - for dow	degrees) +	McNAB INDICES (			

recorders eye to eye of person standing ~10 m

angle from

away.

plot to the horizon. TSI is angles formed by local slopes. For TSI measure

LFI is angle of

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

<b>A</b>	× W	2	A -	Nodule	corresponds space. A and her bur square
	_	Ø	W	Z	cc. (1 dow be
_	_		h	S	Para adams
	ω	w	1	e	,
	2	Ø	Ç	W	L

6

- 0

9

8

5aCM PCAP Plant Cover\_Earth Surface Data sheet Page 1\_ver 3.xls last revised 5/29/2012 ceh

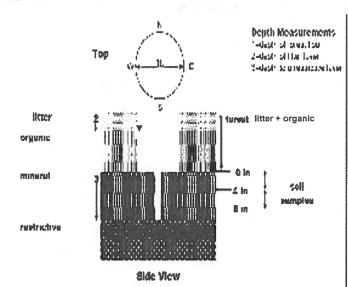
# **COVER BY STRATA**

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.



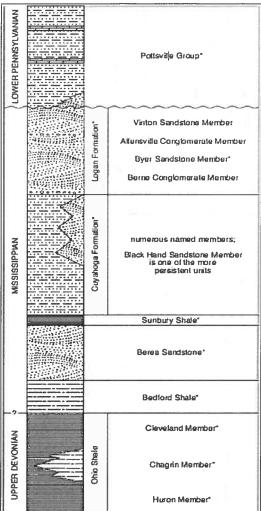


FIGURE 3-20.—Generalized section of Upper Devonian, Missistippian, and Lower Pennsylvanian formations in northeastern Ohio Asteriaks indicate units that are fossiliferous. This composite section represents about 400 meters of rock exposed across the area. The section is not to scale but the chicknesses indicated are proportional. The term "Waverty" is used in the older interature 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 Miember is a spectacular massive analistome that is fairly widespread but discontinuous. See Hyde (1933). Honver (1960), and Colims (1978) for more information on Mississippian rocks in Ohio. See figure 3-16 for explanation of rock types.

CLEVELAND METROPARKS Plant Community Assessment Program - Soils, Crown Cover, Standing Biomass Data Sheet 6a Project label: PCAP Project Name: のトルケンのトン Plot No.: 1296 Project label: PCAP Project Name: 0 NC 2012

Plot No.:

(P) Gleveland Metroparks

Page: 1 of 1

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

20 cm Soil pit module # 6 cm matrix color texture\* texture\* hydr. cond.\*\*\* edox features\*\* oxid roots redox features\*\* %mottle natrix color xid roots nottle color mottle ottle color (one per entire plot) N/A SY 3/ N/A **X** I S 🕦 D 3/2 Ž 3) Ø

refer to texture classes on reverse side

hydro cond \*\*\*

S

3

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

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

No varms

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

Soil Series/Type Brt, Brecksville silt loam Well drained Excessively dr. Soil Series Source: Ohio Soil Survey Soil Collection Moduld Horizon (A, B, C) Depth to rest. Layer: arent Material Veb Soll Survey Information RAINAGE\* ,3,8,9 composited andform type: Ovalnagonays Kesldunm □ Somewhat excessively 20-40 mho from shale 126.150

 Impermeable surface å Somewhat poorly dr. Moderately well dr. Very poorly dr.

M-41-9 X

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

	V	2	~	mod#
	3.	2.0	2.8	1 litter+ organic depth (cm)
	2.7	1.9	2.5	2 litter depth (cm)
	Ø	0	0	water depth (cm)
	730	730	730	depth sat

			Ž								
**** <5 cm in diameter	*** >5 cm in diameter	**Boulder = > 10 in	* Gravel-Cobble = 1/16-10"	Bedrock	Boulder**	Gravel-Cobble*	Mineral Soil	Histosol	(Sum = 100%)	Underlying Earth Surface*	EARTH SURFACE & GROUND COVER
neter	eter	3	1/16-10"	Ø	لنا	_	96	Ø	percent	Surface*	E & GROUN
Other	Rond/Trail	Bare Soil	Water	Bryophyte- Lichen	Duff (Ferm + Humus)	Litter	Fine Woody Debris****	Coarse Woody Debris***	(Each \le 100%)	Ground Cover	ND COVER
	Ø	Ø	Ø	رو	95	95	دو	2	percent		

estimate using midpoints of 5,ex:3, 8, 13	COVER BY STRATA	
	۰	- 1

rooted and fic submersed,	(Aquatic)*	(Floating)*	Herb	Shrub	Tree	Strata	
<ul> <li>rooted and floating or slightly emersed</li> <li>submersed, most plant mass below surface</li> </ul>		1	1.05	,5- S	75	Height Range (m)	
sed W surface			38	8£	86	Total Cover (%)	

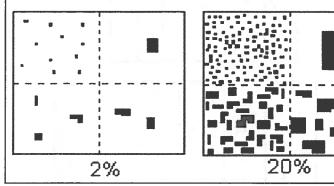
record type and cover for each	each
Туре	%Cover
□ All Purpose	
n Bridle	
□ Hiking sanctioned	
□ Bootleg unsanctioned	ı
□ Gravel	
n Deer	n

No trails

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

<b>PERCENT MOTTLES</b>	(USE CLAS	S CODES):
------------------------	-----------	-----------

Class	C	ode	Criteria: % of
	Conv.	NASIS	Surface Area Covered
Few	f	# 17	< 2
Common	С	#	2 to < 20
Many	m	#	≥ 20



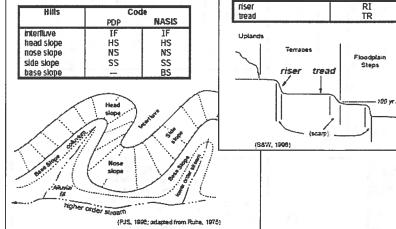
SOIL TEXTURE: Record the code for the soil texture of the 5 cm and 20 cm layers. To estimate texture, collect a soil sample from the appropriate layer and moisten it with water to the consistency of modeling clay/wet newspaper; the sample should be wet enough that all of the particles are saturated but 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

Position

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.



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.

Code

summit shoulder backslope footslope	SU SH BS FS	
toeslope	TS	
Su Sh	Fs Ts Ts Ts Ts Advisors	Sh Su Bs + +

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

Terraces

UPLAND: Not a wetland. Very rarely flooded.

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

**PERMANENTLY/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 flooded".

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

																1							
•				1	11		FO	RM B-1:	BUFF	ER	SAI	<b>NPL</b>	E P	LOT	S (F	ront)	1	Reviev	ved by	(initial)	:		
Site	D: F	0	AP	1	X		129	16							DATE	:08	1)5	1	2	0	1 .	2	
Locati	on:								Fill	in b	ubb	le(s	if p	lot(s	s) cou	uld not be	sample	ed a	nd fl	ag -	<b>→</b>		T
OAAC	Center	С	N	0	S	01	= 0	W	OF	lot '	1	01	Plot	2	OF	Plot 3							
								s; E = Evergre h strata type fo		уре: Е	= Bro	oadlea	f; N = I	Needle	e Leaf. A			vy (40	<b>-75</b> %)	; 4 = \	ery H	eavy (	>75%)
Buffer	Canop	у Тур	e: 🐠	) @	AI	bsen	t: O	Buffer	Canopy	у Тур	e: 🕞	) (	) Ai	osent	: O	Buffer	Canopy	Тур	e: (D	E	Ab	sent	: O
Plot 1	Lea	f Typ	e: <b>(</b>				Flag	Plot 2	Lea	f Typ	e: 🕝	) (			Flag	Plot 3	Leaf	Туре	»: (B)	(1)			Flag
Big Trees (>	0.3m DBH)	0	0	0	<b>①</b>	0		Big Trees (>	0.3m DBH)	0	0	2	3	0		Big Trees	(>0.3m DBH)	0	0	2	3	0	
small Trees (<	0.3m DBH)	0	0	(2)	3			Small Trees (	<0.3m DBH)	0	0	2	3	0		Small Trees	(<0.3m DBH)	0	0	2	0	0	
Woody Shrubs (0.5m-	, Saplings 5m HIGH)	0	0	0	3	0		Woody Shrubs (0.5m	s, Saplings -5m HIGH)	0	0	2	3	0			ubs, Saplings im-5m HIGH)	0	0	0	0	0	
Woody Shrubs (<0.	, Saplings 5m HIGH)	0		2	(1)	0		Woody Shrubs (<0	s, Saplings .5m HIGH)	0	0	2	0	0		Woody Shru	ıbs, Saplings <0.5m HlGH)	0	0	0	0	0	
Herbs, F	orbs and Grasses	0	0	2	0	0		Herbs, F	orbs and Grasses	0	0	2	3	0		Herbs	Forbs and Grasses	0	0	(2)	0	0	
Bare	ground	0	0		0	0		Bare	ground	0	0	2	3	0		Bai	e ground	0	0	2	0	0	
Litt	er, duff	0	0	2	0	0		Lit	ter, duff	0	0	2	0	0		L	itter, duff	0	0	0	0	0	
	Rock	0	0	0	3	0			Rock	0	0	2	0	0			Rock	0	0	0	0	0	
	Water	<b>@</b>	0	2	3	0			Water	0	0	2	0	0			Water	0	0	2	0	0	
	bmerged egetation	0	0	(2)	3	0			bmerged egetation	0	0	2	0	0			Submerged Vegetation	0	0	0	(3)	0	
		sence	e/Ab	senc	e - (	Confi	rm that	a filled data	bubble i	ndica	tes p	resen	ce an	d an	unfilled	bubble indi	cates abse	nce l	y filli	ng thi	s bub	ble.	0
Resi	dential	and	Urba	an Si	tress	sors	NAME OF THE OWNER OWNER OF THE OWNER		Hydrolo	gy S	tres	sors					Agricultu	ıral a	& Ru	ral S	tres	sors	
Fill bubble if present - Plot 1 2 3 Flag Fill bubble i					if prese	ent - I	Plot	1	2	3	Flag	Fili bubble	if preser	it - P	lot	1	2	3	Flag				
Road - gra	vel			0	0	0	manager and control of the control o	Ditches, Cl	hanneliza	ation		0	0	0	The second secon	Pasture/Ha	ay			0	0	0	
Road - two	lane			0	0	0		Dike/Dam/		R Bed		0	0	0		Range				0	0	0	
Road - fou	ır lane			0	0	0		Water Leve	el Contro	l Stru	cture	0	0	0		Row Crops				0	0	0	
Parking Lo	t/Pavem	nent		0	0	0		Excavation	, Dredgir	ng		0	0	0		Fallow Fiel	_D)`		VG	0	0	0	
Golf Cours	se			0	0	0		Fill/Spoil B		S - C		0	0	0		Fallow Fiel SHRUBS, TRE		ASS,		0	0	0	
Lawn/Park				0	0	0		Freshly De (UNVEGETAT	ED)	ACTOR IN CO.		0	0	0		Nursery				0	0	0	
Suburban		tial		0	0	0		Soil Loss/F		osure		0	0	0		Dairy		N.		0	0	0	
Urban/Mul	tifamily			0	0	0		Wall/Ripra				0	0	0		Orchard				0	0	0	
Landfill				0	0	0		Inlets, Outl				0	0	0		Confined A Rural Resi		aing		0	0	0	
Dumping				0	0	0		(EFFLUENT O				0	0	0		Gravel Pit	uerillar		-	0	0	0	
Trash Other:				0	0	0		(SHEETFLOW Other:	0	Si suice		0	0	0		Irrigation		-	-	0	0	0	
Other:				0	00	0 0		Other:			==	0	0	0		Other:				0	0	0	
	strial D	evelo	opme					Outch:					-labit	60000	eneta	tion Stress	ROPS			0	91	O	
FIII bubble		W. St.		1	2	3	Flag	Fill bubble	if prese	nt - F	Plot	1	2	3	Flag	PROPERTY.	le if prese	ent -	Plot	1	2	3	Flag
Oil Drilling	ii prose	JIIC - I	iot	0	0	0	riag			116 - 1	101	0	0	0	· lug			-		0	0	0	i iug
Gas Wells		_		0	0	0		Forest Selec				0	0	0		Herbicide L Mowing/Sh				0	0	0	
Mine (surfa	in the second				Tarable of							STEW ST		0			Tab Catang	,			0	0	
		IN.		0	0	0		Tree Plantal Tree Canop		огу	- 9-	0	0			Trails Soil Compa	ection			0	10000		
Mine (unde	erground	')		0	0	0		(INSECT) Shrub Layer	Browse	d		0	0	0		(ANIMAL OR H	A Commence			0	0	0	
Military	- AVAIL			0	0	0		(WILD OR DOM Highly Graze	ESTIC)			0	0	0		Offroad veh Soil erosion			TER	0	0	0	
Other:				0	0	0		(OVERALL <3"   Recently Bu	HIGH)			0	0	0		OR OVERUSE				0	0	0	
Other:				0	0	0		Canopy Recently Bu	energy name	17.99.01	vd	0	0	0		Other:		Z-page	_	0	0	0	
Other:				0	0	0		(BLACKENED)				0	0	0		Other:				0	0	0	
● Fia	g codes:	K=1	lo me			Exp		uspect measu lags in comm							igned b	y each field c	rew.		2428	3168	304		
Bu	uffer San	nple F	Plots	05,	/27/2			IN SECULOR									September 1						

• FO	RM	B-1	1: E		ER SAMPLE PLOTS -	TAF	RGE	TE	O ALI	EN SPECIES (Back) Reviewed by	y (Initia	l):		•
Site ID:	PC	AF	)	DC SK	1296	DAT	E: _	0.5	<u>}</u> /_	1512012				
O Confirm	a fille	ed da	ıta b	ubble i	ndicates presence and an unf	illed I	bubb	e 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	***************************************	Purple Loosestrife	0	0	0	•	Johnson Grass	0	0	0	Tel-21 embelon
Water hyacinth	0	0	0		Knotweed	0	0	0		Kudzu	0	0	0	and an analysis of
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	2	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	St. velociti 230
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	A CONTRACTOR OF THE CONTRACTOR
							06			Other:	0	0	0	
die laculeur ces	ur re		na,		PLOT COORI	DINA	TES							
Location of coordinate O AA CENTER O N  Latitude I	3	o s	3	O E3	O W3 Nearest pra	Lon	gitue	de V		g and comment below)	.0.			
Flag Comments														
		. 11			11	,		- 1	.0	/ 11				
1 Plot 47 1	+	धा।ऽ		>4 .	the site of a	100	Υ.	Ste	ep	Will		_		
		-							- %					
						_				N. 10. 14	_			
<b>6</b>	-												_	
		307010						_				_		
						_				×10 (1000)				
										44.15				
												- 23	- 53	
			- 200											
					N meta				20.00					
		W 88					III e							
										706	662	354	Ω	

05/27/2011

Buffer Sample Points - Targeted Alien Spering

							FO	RM B-1:	BUFF	ER	SAI	<b>IPL</b>	EP	LO	TS (F	ront)		Reviewe	d by (init	al):		•
Site I	D: P	CA	P	N	C	+2	PR	1296							DATI	: 0.8	11.5	. 1	2.0	1	2	
Locatio	on:								Fill	in b	ubb	le(s	) if p	lot(	s) coi	uld not be	sample	d an	d flag	-	T	
O AAC	Center	C	N	0	S	01	E C	W	01	Plot	1	0	Plot	2	01	Plot 3						
Fill in bubble Strata Section	es for all th on: Fill in a	nat app	oly: Ca	anopy cover	Type:	D = 0 lddud	Decid <b>ů</b> ou e for eac	ıs; E = Evergre	Buffer en. Leaf or each plo	Туре: Е	B = Bro	adlea	f; N = I	Needl	le Leaf. /	Absent: No tre oderate(10-40	e canopy. %); 3 = Hea	vy (40-7	5%); 4	· Very	Heavy	(>75%
Buffer Plot 1	Canopy	у Тур f Тур	_		$\leftarrow$	bsen		Buffer Plot 2	Canop	y Typ	$\stackrel{\sim}{=}$	$\stackrel{\sim}{=}$		bsen		Buffer Plot 3	Canopy	Type:			bsen	
Big Trees (>0			0	(1)		0	Flag				$\overline{\Delta}$			0	Flag					-		Flag
mall Trees (<		$\stackrel{\sim}{\sim}$	0		0	0	-	Big Trees (:		<b>1</b>	0	① ②	0	$\frac{\odot}{\odot}$	-	Small Trees	(>0.3m DBH)	$\stackrel{\square}{=}$		+ =	0	
Woody Shrubs,		0	0	0	•	0		Small Trees ( Woody Shrub		1		_	_	_			ubs, Saplings			+	+	
(0.5m- Woody Shrubs,	5m HIGH) , Saplings	_	_	-	-	0	-	(0.5n Woody Shrub	-5m HIGH) s, Saplings	-	0	0	9	$\frac{\odot}{\odot}$			im-5m HIGH)	-		+=	0	
	5m HIGH)	0	0		0	+-		(<(	.5m H(GH) Forbs and	٩	0	0	9	$\frac{\odot}{\odot}$	-	(-	<0.5m HIGH) Forbs and	-	0 0	+	0	
	Grasses	0	0	0	0	0			Grasses	10	0	0	9	$\frac{\odot}{\odot}$	-		Grasses	-		-	0	
	ground	0	•	0	0	0		Bare	ground	0	0	0	0	0		Bai	e ground	1-1		-	0	
Litte	er, duff	0	0	0		Q		Li	tter, duff	0	0	0	0	0		L	itter, duff	0	9 (0	+ -	0	
	Rock	0	0	0	0	0			Rock	0	0	0	0	<u> </u>			Rock	$\odot$	D 6		0	
No. 1	Water	0	0	0	0	0			Water	0	0	0	0	0			Water	0	D (		0	
-	bmerged egetation	0	0	0	0	0			ibmerged egetation	0	0	<b>②</b>	0	0			Submerged Vegetation	0	D 6		0	
Stress	or Pres	ence	e/Ab	send	:e - (	Confi	irm that	a filled data	bubble i	ndica	tes pr	esen	ce an	d an	unfilled	bubble indi	cates abse	nce by	filling	his b	ibble.	0
Resid	dential	and	Urb	an S	tress	sors			Hydrolo	gy S	tres	sors					Agricultu	ıral &	Rural	Stre	ssore	3
Fill bubble	Fill bubble if present - Plot 1 2 3 Flag					Flag	Fill bubble	if pres	ent - I	Plot	1	2	3	Flag	Fill bubble	if presen	t - Plo	t 1	2	3	Flag	
Road - gra	vel			0	0	0		Ditches, Channelization			0	0	0		Pasture/Ha	зу		C	C	0		
Road - two	lane			0	0	0		Dike/Dam/Road/RR Bed (IMPEDE FLOW)		0	0	0		Range			C	C	0			
Road - four	r lane			0	0	0		Water Level Control Structure		0	0	0		Row Crops			C	0	0			
Parking Lo	t/Pavem	ent	463	0	0	0		Excavation	, Dredgi	ng		0	0	0		Fallow Fiel		RESTING	C	0	0	
Golf Cours	e			0	0	0		Fill/Spoil B				0	0	0		Fallow Fiel SHRUBS, TRE		ASS,	C	0	0	
Lawn/Park				0	0	0		Freshly De (UNVEGETAT		Sedin	ent	0	0	0		Nursery			C	0	0	
Suburban I	Residen	tial		0	0	0		Soil Loss/F	Root Exp	osure		0	0	0		Dairy	The state of		C	0	0	
Urban/Mult	tifamily			0	0	0		Wall/Ripra	р			0	0	0		Orchard			C	0	0	
Landfill				0	0	0		Inlets, Out				0	0	0		Confined A	nimal Fee	ding	C	0	0	
Dumping		a see w		0	0	0		Point Sour (EFFLUENT C	R STORM			0	0	0		Rural Resid	dential		C	0	0	
Trash				•	0	0		Impervious (SHEETFLOW		input		0	0	0		Gravel Pit			C	0	0	
Other:	wals==1			0	0	0		Other:				0	0	0		Irrigation			C	0	0	
Other:				0	0	0		Other:		-		0	0	0		Other:			_ c	0	0	
Indus	trial De	evelo	pm	ent S	Stres	sor	3					ŀ	labit	at/V	egeta	tion Stress	ors					
Fill bubble	if prese	nt - F	Plot	1	2	3	Flag	Fill bubble	if prese	nt - F	Plot	1	2	3	Flag	FIII bubb	le if prese	nt - Pl	ot 1	2	3	Flag
Oil Drilling				0	0	0		Forest Clea	r Cut			0	0	0		Herbicide U	ise		C	C	0	
Gas Wells				0	0	0		Forest Sele	ctive Cut			0	0	0		Mowing/Shi	rub Cutting		C	C	0	
Mine (surfa	ice)			0	0	0	5 7 7	Tree Planta	tion			0	0	0		Trails		The spa	C	C	0	
Mine (unde	rground	)		0	0	0		Tree Canop	y Herbiv	огу		0	0	0		Soil Compa (ANIMAL OR H			C	0	0	
Military				0	0	0		Shrub Layer (WILD OR DON	Browse	d		•	0	0		Offroad veh		ge	C	0	0	
Other:				0	0	0		Highly Graz	ed Grass	ses		0	0	0		Soil erosion	(FROM WIN		100	0	0	
Other:				0	0	0		(OVERALL <3" Recently Bu		est		0	0	0		OR OVERUSE) Other:				0	0	
Other:				0	0	0		Canopy Recently Bu	rned Gra	asslar	d	0	0	0		Other:			0	0	0	
	a codes.	K = N	o me		-	_		(BLACKENED)	rement	F1 F2	etc					y each field ci	'aw			-		
	ffer Sam		щ			Exp	lain all fi	lags in comm	ent sectio	on on t	he ba	ck of 1	this fo	rm				24	281	830	4	

● FO	RM	B-1	1: E	BUFF	ER SAMPLE PLOTS -	TAF	RGE	TE	) ALI	EN SPECIES (Back) Reviewed by	(Initial	1:		0
Site ID:	PC	AF	) (	16	1296	DAT	E: _(	0.8	3_1_	1.5.1.2.0.1.2.				
Confirm	a fille	ed da	ita bi	ubble i	ndicates presence and an unf	illed	bubbl	e inc	licates	absence by filling in this bubl	ole		1 12.2	
Fill bubble if present - Piot	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		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	
			100							Other:	0	0	0	
					PLOT COORI	DINA	TES							
Location of coordinate  AA CENTER O N  Latitude I	3	o s	3	O E3	O W3 O Nearest pra	Lor	gitud	de V		and comment below)	. E.		Fla	lg
Flag Comments	R													
					han a secondada e e e									
						1								
				W 11.1192.1909										
	10				I STATE OF THE STA									
					. 17			- T 11-00-11-					_000	
			2000											
	15									9-711				
			-											
9 V U V F S							11				-			
pust _						-				HOLE BY WALL				
Heremind in The 1800	ES PER	416		219-2		i in			I PER	PART IN				
Buffer Sample P	oints	- Tar	rgete	d Alien	Spr 9 05/27/2011					796	662	354	8	

0	FORM B-1: BUFFER SAMPLE PLOTS (Front)  Reviewed by (initial):  DATE: 08   15   2012																							
	44	tP		NC		10	196														5			
Location:															ld not be	sample	ed a	nd f	lag -	<b>→</b>				
O AA Center	6	N	0	S	OE	. 0	W		lot	-		Plot			lot 3									
	Buffer Natural Cover Strata  I in bubbles for all that apply. Canopy Type: D = Deciduous; E = Evergreen. Leaf Type: B = Broadleaf; N = Needle Leaf. Absent: No tree canopy. rata Section: Fill in appropriate cover class bubble for each strata type for each plot. 0 = Absent; 1 = Sparse(<10%); 2=Moderate(10-40%); 3 = Heavy (40-75%); 4 = Very Heavy (>75%)  Buffer Canopy Type: (a) (b) Absent: (b) Buffer Canopy Type: (c) (c) Absent: (c) Buffer Canopy Type: (d) (d) Absent: (d) Absent: (d) Absent: (e)																							
														(E)	Ab	sent	0							
Plot 1 Lea	af Typ	e: 🕞	) (			Flag	Piot 2	Lea	f Тур	e: (ª	) (			Flag	Plot 3	Leaf	Тур	e: 🕕	0	Ĺ		Flag		
Big Trees (>0.3m DBH	0	0	2	3	0		Big Trees (	>0.3m DBH)	0	0	0	0	0		Big Trees	(>0.3m DBH)	0	0	2	0	0			
mail Trees (<0.3m DBH	0	0	2	3	0		Small Trees (	<0.3m DBH	0	0	0	0	0		Small Trees	(<0.3m DBH)	0	0	0	0	0			
Voody Shrubs, Saplings (0.5m-5m HIGH)		0	<b>①</b>	0	0		Woody Shrub (0.5n	s, Saplings 1-5m HIGH)	0	0	2	0	0			ubs, Saplings im-5m HIGH)	0	0	(2)	0	0			
Voody Shrubs, Saplings (<0.5m HIGH)		0	2	0	0		Woody Shrub	s, Saplings 0.5m HIGH)	0	0	0	0	0			bs, Saplings <0.5m HIGH)	0	0	0	0	0			
Herbs, Forbs and Grasses		0	2	①	0		Herbs,	Forbs and Grasses	0	0	2	3	0		Herbs	Forbs and Grasses	0	0	0	0	0			
Bare ground	0	0	2	3	0		Bare	ground	0	0	<b>①</b>	3	0		Bar	e ground	0	0	0	0	0			
Litter, duff	0	0	0	0	0	_	Li	tter, duff	0	0	(2)	0	0		L	itter, duff	0	0	0	0	0			
Rock	0	0	2	0	0			Rock	0	0	0	0	0			Rock	0	0	2	0	0			
Water	0	0	3	①	0			Water	0	0	2	0	0			Water	0	0	2	3	0			
Submerged Vegetation		0	2	0	0			ubmerged /egetation	0	0	0	0	0			Submerged Vegetation	0	0	2	0	0			
Stressor Pre		e/Ab	send	e - (	Confi	m that			ndica	tes pi	resen	ce an	d an	unfilled	TOTAL PROPERTY.	1000000	ence	by filli	ng thi	s bub	ble. (	•		
Residential	and	Urba	an S	tress	sors			Hydrolo	gy S	tres	sors					Agricult	ural	& Ru	ural Stressors					
ill bubble if pres	ent -	Plot	1	2	3	Flag	FIII bubbl	e if prese	ent - I	Plot	1	2	3	Flag	Fill bubble	if prese	nt - P	lot	1	2	3	Flag		
Road - gravel	114		0	0	0		Ditches, C	hanneliza	ation		0	0	0		Pasture/Ha	ау			0	0	0			
Road - two lane			0	0	0		Dike/Dam.		R Bed		0	0	0		Range				0	0	0			
Road - four lane			0	0	0		Water Lev		l Stru	cture	0	0	0		Row Crops		Lei		0	0	0			
Parking Lot/Paver	nent		0	0	0		Excavation	n, Dredgii	ng		0	0	0		Fallow Fiel ROWCROP FIEL		RESTI	NG	0	0	0			
Golf Course			0	0	0		Fill/Spoil E				0	0	0		Fallow Fiel SHRUBS, TRE		ASS,		0	0	0			
Lawn/Park			0	0	0		Freshly De		Sedin	nent	0	0	0		Nursery			A	0	0	0			
Suburban Resider	ntial		0	0	0		Soil Loss/	Root Exp	osure		0	0	0		Dairy				0	0	0			
Urban/Multifamily		Led)	0	0	0		Wall/Ripra	р			0	0	0		Orchard				0	0	0			
Landfill		41	0	0	0		Inlets, Out				0	0	0		Confined A		ding		0	0	0			
Dumping			0	0	0		(EFFLUENT O	OR STORM	VATER	()	0	0	0		Rural Resi	dential			0	0	0			
Trash		SL.	0	0	0		(SHEETFLOV		iriput		0	0	0		Gravel Pit				0	0	0			
Other:			0	0	0		Other:				0	0	0		Imigation				0	0	0			

		10	1 V	1		10			ı		0		5.00				
Other:	0	0	0		Other:	0	0	0		Other:	0	0	0				
Industrial Developm	ent S	Stres	ssor	S	Habitat/Vegetation Stressors												
Fill bubble if present - Plot	1	2	3	Flag	Fill bubble If present - Plot	1	2	3	Flag	FIII bubble if present - Plot	1	2	3	Flag			
Oil Drilling	0	0	0		Forest Clear Cut	0	0	0		Herbicide Use	0	0	0				
Gas Wells	0	0	0		Forest Selective Cut	0	0	0		Mowing/Shrub Cutting	0	0	0				
Mine (surface)	0	0	0		Tree Plantation	0	0	0		Trails	0	0	0				
Mine (underground)	0	0	0	A	Tree Canopy Herbivory (INSECT)	0	0	0		Soil Compaction (ANIMAL OR HUMAN)	0	0	0				
Military	0	0	0		Shrub Layer Browsed (WILD OR DOMESTIC)	0	0	0		Offroad vehicle damage	0	0	0				
Other:	0	0	0		Highly Grazed Grasses (OVERALL <3" HIGH)	0	0	0		Soil erosion (FROM WIND, WATER, OR OVERUSE)	0	0	0				
Other:	0	0	0		Recently Burned Forest	0	0	0		Other:	0	0	0				
Other:	0	0	0		Recently Burned Grassland (BLACKENED)	0	0	0		Other:	0	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



FO	RM	B-1	l: E	BUFF	ER SAMPLE PLOTS -	TAF	RGE	TEI	) ALI	EN SPECIES (Back) Reviewed by	(initial			•
Site ID:	P	CAF	0 1	VC	1296	DAT	E: _(	2.8		151 2012				
<b>d</b> Confirm	a fille	ed da	ta bi	ıbble l	ndicates presence and an unf	illed I	oubbl	e inc	ilcates	absence by filling in this bubl	ole			
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 O O O Giant Reed O O O Himalayan Blackberry O O O														
Poison Hemlock O O O Cheatgrass O O O Tamarisk O O O														
Mile-A-Minute Weed         O         O         Reed Canary Grass         O         O         Other:         O         O														
Birdsfoot Trefoil         O         O         Common Reed         O         O         Other:         O         O														
Canada Thistle	0	0	0		Leafy Spurge	0	0	0		Other:	0	0	0	
										Other:	0	0	0	
					PLOT COORI	DINA	TES							
Location of coordinate O AA CENTER O N	<b>es (c</b> 3	hoo:	<b>se o</b> 3	ne): O E3	O W3 • Nearest pra	ctical	ole lo	catio	on (flag		ь.		Fla	ag
Flag Comments														
1 Plots 1	-2	+	3		ould not be s	an	بهلا		de	, to the s	lea	pN	25	5
of th	ر ا	Slo	مود	_ ~	safety here	W	<u>.                                    </u>			,s to the s	_			
			_		U	1855								
				1										
							-							
								_				_		
								200						
	-									- 41				
							-5.00							
Cart Back	70	2		Ē										
G8/5"						46			HE.	No. of the latest the				
Buffer Sample P	oints	- Tar	gete	d Alien	Specins 05/27/2011	THE STREET		ne	184	796	662	354	8	

				5		1	72													
		N	0		FOI	RM B-1: BUFFER SAI	MPL	E PI	LOT	S (F	ront) Reviewed by	/ (initial)	):	_ (	0					
Site ID: PC	AP	1	\$	0	7	1296 DATE: 08/15/2012														
Location:						Fill in bubb	le(s	) if p	lot(s		ıld not be sampled and			1	П					
O AA Center	ON	0	S	<b>O</b> E	0	W Plot 1	Q	Plot	2	<b>Æ</b> P	Plot 3									
Fill in hubbles for all that a	anniv. (	ີເສກດກຸນ	Type:	D = D	eciduou	Buffer Natural s; E = Evergreen. Leaf Type: B = Br					Absent: No tree canopy.									
											oderate(10-40%); 3 = Heavy (40-75%	); 4 = V	ery He	eavy (	>75%)					
Buffer Canopy T	ype: (	D (	A	bsen	t: O	Buffer Canopy Type:		) At	sent	: ()	Buffer Canopy Type:	(E)	Ab	sent:	: 0					
Plot 1 Leaf Ty	ype: (	$\stackrel{\hookrightarrow}{-}$	<u> </u>	T	Flag	Plot 2 Leaf Type:	9 (			Flag	Plot 3 Leaf Type:	) ()	)		Flag					
Big Trees (>0.3m DBH)	O		<u></u>	0		Big Trees (>0.3m DBH)	0	0	0		Big Trees (>0.3m DBH)	0	0	0						
mail Trees (<0.3m DBH)	$\mathbb{O}[\mathbb{C}]$		0	0		Small Trees (<0.3m DBH)	0	0	<u>O</u>		Small Trees (<0.3m DBH)	0	0	0						
Voody Shrubs, Saplings (0.5m-5m HIGH)	0		0	0		Woody Shrubs, Saplings (0.5m-5m HIGH)	0	0	<u>O</u>		Woody Shrubs, Saplings (0.5m-5m HIGH)	0	0	0						
Voody Shrubs, Saplings (<0.5m HIGH)	0	) []	0	0		Woody Shrubs, Saplings (<0.5m HIGH)	2	0	①		Woody Shrubs, Saplings (<0.5m HIGH)	0	0	0						
Herbs, Forbs and Grasses	O	) (2)	0	0		Herbs, Forbs and Grasses	2	0	0		Herbs, Forbs and Grasses	0	0	0						
Bare ground	) (	3	0	0		Bare ground ① ①	2	0	<b>O</b>		Bare ground 💿 🕦	2	0	0						
Litter, duff	(C)	) (2)	0	0		Litter, duff 💿 🕦	2	0	$\odot$		Litter, duff 💿 🕦	0	3	0						
Rock 0		0	0	0		Rock ① ①	0	0	0		Rock ① ①	0	3	0						
Water 🕝	D 0	0	3	0		Water 💿 🕦	0	0	0		Water 💿 🕦	0	0	0						
Submerged Vegetation	0	0	3	0		Submerged Vegetation	0	3	0		Submerged Vegetation	2	0	0						
	nce/A	bsen	ce -	Confi	rm that		resen	ce an	d an	unfilled	bubble indicates absence by fil	ing thi	s bub	ble. (	•					
Residential an	nd Url	ban S	tres	sors		Hydrology Stres	sors				Agricultural & Rural Stressors									
Fili bubble if present - Plot 1 2 3 Flag						Fili bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag					
Road - gravel		0	0	0	KI (MARKE) (MELITALIAN KANDEL MARKE)	Ditches, Channelization	0	0	0		Pasture/Hay	0	0	0						
Road - two lane		0	0	0		Dike/Dam/Road/RR Bed (IMPEDE FLOW)	0	0	0		Range	0	0	0						
Road - four lane		0	0	0		Water Level Control Structure	0	0	0		Row Crops	0	0	0						
Parking Lot/Pavemen	nt	0	0	0		Excavation, Dredging	0	0	0		Fallow Field (RECENT-RESTING ROWCROP FIELD)	0	0	0						
Golf Course		0	0	0		Fill/Spoil Banks	0	0	0		Fallow Field (OLD - GRASS, SHRUBS, TREES)	0	0	0						
Lawn/Park		0	0	0		Freshly Deposited Sediment (UNVEGETATED)	0	0	0		Nursery	0	0	0						
Suburban Residential		0	0	0		Soil Loss/Root Exposure	0	0	0		Dairy	0	0	0						
Urban/Multifamily		0	0	0	:	Wall/Riprap	0	0	0		Orchard	0		0						
Landfill	-0-	0	0	0		Inlets, Outlets Point Source/Pipe	0	0	0		Confined Animal Feeding  Rural Residential	0	0	0						
Dumping		0	0	0		(EFFLUENT OR STORMWATER)	0	0	0		Gravel Pit	0	0	0						
Trash		0	0	0		(SHEETFLOW) Other:	10	0	0		Imigation	0	0	0						
Other:	-	10	0	0		Other:	0	0	0 0		Other:	0	0	0						
Other:		10				Other.							0	0	a selli					
Industrial Deve	-	-		П							tion Stressors									
fill bubble if present	- Piot		2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot				Flag					
Oil Drilling		0	0	0		Forest Clear Cut	0	0	0		Herbicide Use	0	0	0						
Gas Wells		0	0	0		Forest Selective Cut	0	0	0	***************************************	Mowing/Shrub Cutting	0	0	0						
Mine (surface)		10	0	0		Tree Plantation Tree Canopy Herbivory	0	0	0		Trails Soil Compaction	0	0	0						
Mine (underground)		0	0	0		(INSECT)	0	0	0		(ANIMAL OR HUMAN)	0	0	0	· · · · · · · · · · · · · · · · · · ·					
Military		0	0	0		Shrub Layer Browsed (WILD OR DOMESTIC)	0	0	0		Offroad vehicle damage	0	0	0						
Other:		0	0	0		Highly Grazed Grasses (OVERALL <3" HIGH)	0	0	0		Soil erosion (FROM WIND, WATER, OR OVERUSE)	0	0	0						
Other:		0	0	0	ne disease	Recently Burned Forest Canopy	0	0	0		Other:	0	0	0						
Other:		0	0	0		Recently Burned Grassland (BLACKENED)	0	0	0		Other:	0	0	0						
P1 1		17.1	4-1-	U service										- 10	100					

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



- FC	DM	D.	1 . K	DIJEE	ED CAMPI E DI OTC	TAR	OF	TEL	S ALL	EN CRECIEC (Pools)					
	IKIN	D-	I. E	DUFF	ER SAMPLE PLOTS -	IAF	(GE	IEL	J ALI	EN SPECIES (Back) Reviewed by	r (initial	):			
Site ID:	P	A	ρ	Ø0	1296	DAT	E: _(	2.8		15/2012					
Confirm a filled data bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble															
Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Piot	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	10 - 70 miles	
Water hyacinth	0	0	0		Knotweed	0	0	0		Kudzu	0	0	0		
Yellow Floating Heart O O O Japanese Knotweed O O Multiflora Rose O O O Giant Salvinia															
Giant Salvinia	ant Salvinia O O O Perennial Pepperweed O O O Common Buckthorn O O														
Garlic Mustard															
Poison Hemlock															
Mile-A-Minute Weed	e Weed O O O Reed Canary Grass O O O Other:O O														
Birdsfoot Trefoil															
Canada Thistle	0	0	0		Leafy Spurge	0	0	0		Other:	0	0	0		
										Other:	0	0	0		
					PLOT COORI	DINA	TES					+			
Plots are centered on the Bur flag box, and describe where either placed as close to the Location of coordinate O AA CENTER O N	ffer Ti the c center es (c	ranse coordi er of F hoos	ects a nate Plot 3 se o	nnd the s were as pos ne):	coordinates will indicate the loc taken and why in the comment sible or at the center of the last	ation section acce ctical	of the n belossible	transow. To Buffi	sect. Fi he coo er Plot. on (flag	TRANSECT. This is important I II in the "nearest practicable locardinates of the nearest practicable and comment below)	ation" le loc	bubb	le, fil	in the	
Flag Comments													7=1		
1 The los	4 6	t t	fer	Pelax	ine falls of,	10	pex.	ty		refal Plot I					
Buffer Sample P	oints	- Tar	gete	d Alien	Spc § 05/27/2011					796	662	354	3 (		

FORM B-1: BUFFER SAMPLE PLOTS (Front)  Reviewed by (Initial):																				
Site ID: PCAPISC 1296 DATE: 08 1 15 1 20.12																				
Location: Fill in bubble(s) if plot(s) could not be sampled and flag															_					
O AA Center O N	0	S	01	E C	w		Plot			Plot			Plot 3						Ĵ	
	-					Buffer														
Fill in bubbles for all that apply: C Strata Section: Fill in appropriate															avy (40	)-75%)	; 4 = \	/ery H	eavy (	(>75%)
Buffer Canopy Type:		) A	bsen	t: O	Buffer	Canop	у Тур	e: (	) (	) AI	bsent	t: O	Buffer	Canopy	/ Тур	e: 🕞	(E)	) Al	sent	: 0
Plot 1 Leaf Type:	) (	5		Flag	Plot 2	Lea	f Typ	e: (	) ©	)		Flag	Plot 3 Leaf Type: (e)				<u> </u>			Flag
Big Trees (>0.3m DBH)	(2)	3	0		Big Trees (	>0.3m DBH)	0	0	0	0	0		Big Trees	(>0.3m DBH)	0	0	2	3	0	
Small Trees (<0.3m DBH)	0	0	0		Small Trees	(<0.3m DBH	0	0	2	0	0		Small Trees	(<0,3m DBH)	0	0	2	3	0	
Woody Shrubs, Saplings (0.5m-5m HlGH)	(2)	0	0		Woody Shrub (0.5ri	os, Saplings n-5m HIGH)		0	0	0	0			ubs, Saplings 5m-5m HIGH)		0	2	3	0	
Woody Shrubs, Saplings (<0.5m HIGH)	0	3	0		Woody Shrub	os, Saplings 0.5m HIGH)	0	0	2	0	0			bs, Saplings <0.5m HIGH)		0	2	<u> </u>	0	
Herbs, Forbs and Grasses	0	0	0		Herbs,	Forbs and Grasses	0	0	2	0	0		Herbs	Forbs and Grasses	0	0	0	<u> </u>	0	
Bare ground ① ①	0	0	0		Bare	e ground	0	0	2	0	0		Bai	re ground	0	0	0	3	0	
Litter, duff	0	0	0		L	itter, duff	0	0	2	0	0		L	itter, duff	0	0	<b>②</b>	3	0	
Rock ① ①	0	0	0			Rock	0	0	2	0	0			Rock	0	0	0	0	0	
Water 💿 🕠	0	0	0			Water	0	0	2	0	0			Water	0	0	3	0	0	
Submerged O O			ubmerged /egetation	0	0	2	0	0			Submerged Vegetation	0	0	2	3	0				
	sen	e -	Conf	irm that	L		ndica	tes p	resen	ce an	d an	unfilled	bubble indi			by filli	ng th	is bul	ble.	<b>a</b>
Stressor Presence/Absence - Confirm that a filled data bubble indicates presence and an unfi  Residential and Urban Stressors Hydrology Stressors														Agricult	ural	& Ru	ral S	tres	sors	
Fill bubble if present - Plot	1	2	3	Flag	Fili bubbi	e if prese	ent -	Plot	1	2	2 3 Flag FIII bubble if present - Plot						1	2	3	Flag
Road - gravel	0	0	0		Ditches, C	hanneliza	ation		0	0	0	LUMAUM LAUJUBREARD	Pasture/Ha	ay			0	0	0	Make when they appear will a Synamic
Road - two lane	0	0	0		Dike/Dam.		R Bed		0	0	0		Range	AT SOL			0	0	0	
Road - four lane	0	0	0		Water Lev		l Stru	cture	0	0	0		Row Crops	3			0	0	0	
Parking Lot/Pavement	0	0	0		Excavation	n, Dredgiı	ng		0	0	0	,	Fallow Fiel	LD)	Sur Carr	NG	0	0	0	
Golf Course	0	0	0		Fill/Spoil E				0	0	0		Fallow Fiel SHRUBS, TRE		ASS,		0	0	0	
Lawn/Park	0	0	0		Freshly De		Sedin	nent	0	0	0		Nursery				0	0	0	
Suburban Residential	0	0	0		Soil Loss/		osure		0	0	0		Dairy				0	0	0	
Urban/Multifamily	0	0	0		Wall/Ripra	ip			0	0	0		Orchard				0	0	0	
Landfill	0	0	0		Inlets, Out				0	0	0		Confined A	Animal Fee	eding		0	0	0	
Dumping	0	0	0		Point Sour	OR STORM			0	0	0		Rural Resi	dential			0	0	0	
Trash	0	0	0		(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	
Industrial Developm	ent S	Stres	SOF	8					ı	Habit	tat/V	egeta	tion Stress	sors						
Fili bubble if present - Plot	1	2	3	Flag	Fili bubble	if prese	nt - I	Plot	1	2	3	Fiag	Fili bubb	le if pres	ent -	Plot	1	2	3	Flag
Oil Drilling	0	0	0		Forest Clea	ar Cut		31	0	0	0		Herbicide L	Jse			0	0	0	*
Gas Wells	0	0	0		Forest Sele	ctive Cut		Tal.	0	0	0		Mowing/Sh	rub Cuttin	g		0	0	0	
Mine (surface)	0	0	0		Tree Planta	ition			0	0	0		Trails				0	0	0	W
Mine (underground)	0	0	0		Tree Canor	y Herbiv	ory		0	0	0		Soil Compa				0	0	0	
Military	0	0	0		Shrub Laye		d		0	0	0		Offroad veh		ige		0	0	0	
Other:	0	0	0		Highly Graz	ed Grass	ses		0	0	0		Soil erosion	(FROM WIN	-	TER.	0	0	0	
Other:	0	0	0		(OVERALL <3" Recently B	urned For	rest		0	0	0		OR OVERUSE Other:	1			0	0	0	
Other:	Recently Burned Grassland			0	0	0		Other:		45.4		0	0	0						
Flag codes: K = No me	O	O	made	, U=S	(BLACKENED)	urement.,	F1,F2	, etc.	= mis	c. flag	8 255	Igned b	-	rew.				11-11-1		7
Buffer Sample Plots			Exp	lain all f	lags in comm	ent sectio	on on	the ba	ck of	this fo	ım					2428	168	3304		

● FO	RM	B-1	l: E	BUFF	ER SAMPLE PLOTS -	TAF	RGE	TE	) ALI	EN SPECIES (Back) Reviewed by	/ (Initia	ı):		•	
Site ID:	P	C/-	P	M	E 1296	DAT	E: (	0.8		1512012					
© Confirm	a fille	ed da	ta b	ıbble i	ndicates presence and an unf	illed l	oubbl	e ind	ilcates	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	/	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	200000000000000000000000000000000000000	
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	AND STATE OF THE S	
Poison Hemlock															
Mile-A-Minute Weed O O Reed Canary Grass O O O Other: O O O															
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		
									and the same	Other:	0	0	0		
		T TE			PLOT COORI	DINA	TES					56			
Location of coordinate O AA CENTER O N  Latitude I	3	O S	3	O E3	O W3	Lor	gitud	de V		g and comment below)	1.		Fla	ng	
Flag Comments															
1 The so	+	1	6	UFF	er line falls	of		DIC	spe	ity and con	old	n	ta		
be sai			-	7 S				7	1	.0	500				
•	1							62							
											-0,00				
										E V N THE HEAT STORMS					
222 2.10			2000						579				224		
			ī	•											
					U I	-			fo	II					
			_			-					-				
	The same	W.		+ 718		3.23	4.5.00	AX - YANG			87		RY	inglish j	
Buffer Sample P	oints	- Tar	gete	d Alien	Spering 05/27/2011					796	662	354	8		