



Plot No., Date agreement on all Header data completed all pages Cover classes recorded in all Int Browse Level By Species Woody stem quality control che Invasive plant quality control che Invasive plant quality control che Ash trees mapped Cover by Strata? (confirm cover Soil samples collected with mark Vouchers labeled on datasheet with Vouchers labeled on collection Pink flags removed Data sheet QA before leaving sit Common equipment returned to Data sheets scanned? Final data sheets scanned? Buffer Widths measured? Web Soil Survey Voucher Location (# vouchers collected) Press (# Drier Identific Mounte Thrown GRTS point verification: Is proved Origina No Origina P	p? Bearing of plot recorded ords Recorded irection recorded aphs taken? pages? s? tensive modules	Y W N Y N Y N Y N Y N Y N Y N Y N Y N Y N Y	Comment required if item answer is NO If yes, write details in Comments section below
Field journals completed Site sketch made on 1:3000 map Check cover page Check cover page Check cover page X-axis E GPS coo North di Photogra Plot No., Date agreement on all Header data completed all pages Cover classes recorded in all Int Browse Level By Species Woody stem quality control che Invasive plant quality con	p? Bearing of plot recorded ords Recorded irection recorded aphs taken? pages? s? tensive modules	(Ŷ) N (Ŷ) N (Ŷ) N (Ŷ) N (Ŷ) N (Ŷ) N	
Cover classes recorded in all Integrated plant quality control chemistrate	p? Bearing of plot recorded ords Recorded irection recorded aphs taken? pages? s? tensive modules	(Ŷ) N (Ŷ) N (Ŷ) N (Ŷ) N (Ŷ) N (Ŷ) N	If yes, write details in Comments section below
Site sketch made on 1:3000 map Check cover page X-axis E GPS coo North di Photogra Plot No., Date agreement on all Pleader data completed all pages Cover classes recorded in all Int Browse Level By Species Woody stem quality control che Invasive plant qualit	Bearing of plot recorded ords. Recorded irection recorded aphs taken? pages? s? tensive modules	(V) N (V) N (V) N (V) N (V) N	
Check cover page X-axis E GPS coo North di Photogra Plot No., Date agreement on all Header data completed all pages Cover classes recorded in all Int Browse Level By Species Woody stem quality control che Invasive plant quality control che Invasive plant quality control che Soil samples collected with ma Vouchers labeled on datasheet v Vouchers labeled on collection Pink flags removed Data sheet QA before leaving si Common equipment returned to Data sheets scanned? Final data sheets scanned? Buffer Widths measured? Web Soil Survey Voucher Location (# vouchers collected) Press (# Drier Identific Mounte Thrown GRTS point verification: Is p Yes Origina No Origina	Bearing of plot recorded ords. Recorded irection recorded aphs taken? pages? s? tensive modules	D N D N D N D N D N D N D N	
Plot No., Date agreement on all Header data completed all pages. Cover classes recorded in all Interpretations of the Invasive plant quality control chest inva	ords Recorded irection recorded aphs taken? pages? s? tensive modules	N N N N N N N N N N N	
Plot No., Date agreement on all Pleader data completed all pages. Cover classes recorded in all Interpretations of the Invasive plant quality control ches Invasive plant qual	aphs taken? pages? s? tensive modules	(Y) N (Y) N	
Photogra Plot No., Date agreement on all Reader data completed all pages Cover classes recorded in all Int Browse Level By Species Woody stem quality control che Invasive plant quality contro	aphs taken? pages? s? tensive modules	(Ý) N	
Plot No., Date agreement on all leader data completed all pages. Cover classes recorded in all Int. Browse Level By Species. Woody stem quality control che invasive plant quality control che	pages? s? tensive modules	Ý N	
Reader data completed all pages Cover classes recorded in all Interpretation Browse Level By Species Woody stem quality control che Invasive plant quality c	s? tensive modules		I .
Cover classes recorded in all Interpretations: Is press of the control of the con	tensive modules	l 💎 N	
Browse Level By Species Woody stem quality control che nvasive plant quality control che Ash trees mapped Cover by Strata? (confirm cover Soil samples collected with ma Vouchers labeled on datasheet with vouchers labeled on collection Pink flags removed Data sheet QA before leaving si Common equipment returned to Data sheets scanned? Buffer Widths measured? Web Soil Survey Voucher Location Refriger # vouchers collected) Press (# Drier Identified Mounte Thrown GRTS point verification: Is part of the press of the p		 	
Woody stem quality control che nvasive plant quality control che nvasive plant quality control che Ash trees mapped Cover by Strata? (confirm cover soil samples collected with ma vouchers labeled on datasheet wouchers labeled on collection Pink flags removed Data sheet QA before leaving so Common equipment returned to Data sheets scanned? Final data sheets scanned? Buffer Widths measured? Web Soil Survey Voucher Location Refriger wouchers collected) # vouchers collected) Press (# Drier Identific Mounte Thrown GRT'S point verification: Is provided to Origina Do No Origina Drier Poorigina	eck	Ŵ N	
Invasive plant quality control cl Ash trees mapped Cover by Strata? (confirm cover Soil samples collected with ma Vouchers labeled on datasheet w Vouchers labeled on collection Pink flags removed Data sheet QA before leaving si Common equipment returned to Data sheets scanned? Final data sheets scanned? Buffer Widths measured? Web Soil Survey Voucher Location (# vouchers collected) Press (# Drier Identific Mounte Thrown GRTS point verification: Is p Yes Origina No Origina	eck	Y N	
Ash trees mapped Cover by Strata? (confirm covers of the c		Ŵ N	
Cover by Strata? (confirm coversoil samples collected with ma Vouchers labeled on datasheet wouchers labeled on collection Pink flags removed Data sheet QA before leaving signature of the Common equipment returned to Data sheets scanned? Final data sheets scanned? Buffer Widths measured? Web Soil Survey Voucher Location Refriger (# vouchers collected) Press (# Drier Identified Mounte Thrown GRTS point verification: Is provided the Configuration of the Configuration	heck	Y N	
Cover by Strata? (confirm coversoil samples collected with ma Vouchers labeled on datasheet wouchers labeled on collection Pink flags removed Data sheet QA before leaving signature of the Common equipment returned to Data sheets scanned? Final data sheets scanned? Buffer Widths measured? Web Soil Survey Voucher Location Refriger (# vouchers collected) Press (# Drier Identified Mounte Thrown GRTS point verification: Is provided the Configuration of the Configuration		(Y) N	
Soil samples collected with ma Vouchers labeled on datasheet vouchers labeled on collection Pink flags removed Data sheet QA before leaving si Common equipment returned to Data sheets scanned? Final data sheets scanned? Buffer Widths measured? Web Soil Survey Voucher Location Refriger (# vouchers collected) Press (# Drier Identific Mounte Thrown GRTS point verification: Is provided to the property of the property of the provided to the provi	r type)	Y N	
Vouchers labeled on datasheet vouchers labeled on collection Pink flags removed Data sheet QA before leaving si Common equipment returned to Data sheets scanned? Final data sheets scanned? Buffer Widths measured? Web Soil Survey Voucher Location Refriger (# vouchers collected) Press (# Drier Identific Mounte Thrown GRTS point verification: Is possible to the property of the prop	atching plot #.	Y N	
Vouchers labeled on collection Pink flags removed Data sheet QA before leaving si Common equipment returned to Data sheets scanned? Final data sheets scanned? Buffer Widths measured? Web Soil Survey Voucher Location Refriger (# vouchers collected) Press (# Drier Identific Mounte Thrown GRTS point verification: Is part of the press of the pr		(Y) N	
Pink flags removed Data sheet QA before leaving si Common equipment returned to Data sheets scanned? Final data sheets scanned? Buffer Widths measured? Web Soil Survey Voucher Location Refriger (# vouchers collected) Press (# Drier Identific Mounte Thrown GRTS point verification: Is part of the press o		(Y) N	
Data sheet QA before leaving si Common equipment returned to Data sheets scanned? Final data sheets scanned? Buffer Widths measured? Web Soil Survey Voucher Location Refriger (# vouchers collected) Press (# Drier Identific Mounte Thrown GRTS point verification: Is provided to the property of the property of the provided to the prov		Y) N	
Common equipment returned to Data sheets scanned? Final data sheets scanned? Buffer Widths measured? Web Soil Survey Voucher Location Refriger (# vouchers collected) Press (# Drier Identific Mounte Thrown GRTS point verification: Is provided to the property of the provided to the	ite?	X N	
Data sheets scanned? Final data sheets scanned? Buffer Widths measured? Web Soil Survey Voucher Location Refriger (# vouchers collected) Press (# Drier Identific Mounte Thrown GRT'S point verification: Is pressed to the press of the pressed of t		Y) N	
Final data sheets scanned? Buffer Widths measured? Web Soil Survey Voucher Location Refriger # vouchers collected) Press (# Drier Identific Mounte Thrown GRTS point verification: Is press No Origina P	, tuo.	8/2/13	Enter date to left BK
Buffer Widths measured? Web Soil Survey Voucher Location Refriger (# vouchers collected) Press (# Drier Identifit Mounte Thrown GRTS point verification: Is press of the press of t		101011	Enter date to left
Web Soil Survey Voucher Location Refriger (# vouchers collected) Press (# Drier Identific Mounte Thrown GRTS point verification: Is press No Origina P		Y N	BB 6-28-13
Voucher Location Refriger # vouchers collected) Press (# Drier Identific Mounte Thrown GRTS point verification: Is part of the pressure of t		YN	BB 8-z-13
# vouchers collected) Press (# Drier Identific Mounte Thrown GRTS point verification: Is press No Origina Press (# Drier Identific Mounte Thrown		YN	00 3 6 13
GRTS point verification: Is p Yes Origina No Origina P		I N	Francisco de la G
GRTS point verification: 1s p Yes Origina No Origina	!)		Enter number to left
GRTS point verification: Is provided to the control of the control		Y N	
GRTS point verification: ls p	ed	Y N	
GRTS point verification: Is p	:d	Y N	
yo Yes	ı away	Y N	
✓ Yes Origina □ No Origina □ P			
□ No Origina □ P	plot sampleable?		
o P	d GRTS point is sampleable		
o P	al GRTS point lands in a non	-sampleable area (f	fill in category below)
- N	Point falls in a water (i.e. river,	-	
1 25	Managed mowed area (i.e. gol	f course, picnic area, rig	ht-of-way)
	Paved area (i.e. parkinglot, road)		
	Insafe to sample (i.e. steep slop Other	oe)	
	Junei		
Additional Comments:			

Natural Resources Mangement Form NR/2011

		02	
2 10	um a centrum	□ Systematic (grid) □ Capture specific feature □ Other	Authority: G&C Pub Date: 1998
6	shirtshum achrestichcides, Fraxinus seedling	□ Random □ Stratified Random □ Transect component	TAXONOMIC STANDARD
4	quality species mixed in consisted mostly	Plot placement: GRTS - Representative	lichen
	Herb - heathy herb layer with some high	Photo Nos.: 2548	bryo
	some young beech. Also had spice bush	Camera No.: C.S.	vascul. \nearrow n/a
~	Shrub -	Intensive modules: 2 3,8,9 1,2,3, 4 EDIT IF MODIFIED	high modera. low not smpl
,	0	Depth: (1-5): 1+	TAXONOMIC ACCURACY
	'churs	X-axis Bearing of plot: [00]]	- Hurried data
	ore or two large sugar may as a carrie	Plot size for cover data: , OU (hectares)	Accurate may still provide good
	(VIW)	GPS File Name: 1353A	eyery thorough how much effort put into
	The Plant Company Company of the Com	Coord. Accuracy: - m - ft 100% +-	Effort Level: subjective evaluation of
	Rationale Carea.	Longitude: 81, 42648	SAMPLING QUALITY*
	parallel to the dans	Latitude: 41,58121	□ Perm. water □ Paved □ Slope □ Safety
	- Plot is within sight of Apr	$x = \int $	PLOT NOT SAMPLED:
	Cut into woods before the land to	GPS location in plot $x=0$ to 5, $y=-1,0,+1$):	** Roles: Co-leader, Asst., Guide, Owner, Taxonomist, etc.
	area and walk south along APTN 200 m	Datum: ■ NAD83/WGS84 □ NAD27	
100	Location fark at Whispering Woods parking	□ Other (specify) ■ m □ ft □	A. Schraufnagel woody
	Larput: 2x2	■ Lat/Long □ UTM □ StatePlane ■ deg □ deg min	C. Devono woody
	dominants, strata, BROWSE). Additional notes in space on back.	Coordinate system: Coord. Units	T. Lacerda ussist
	content), Rationale (why here), and Veg Characterization (description of community.	Source of coordinates MAP GPS	5. Catella Plot leader
	(0,0) point point with direction permanent posts	If data not public why?	Party Role**
Yay	 location of 	Reason:	End date (if > 1 day): / /
		□ Fuzz 100m □ Fuzz 250m □ Fuzz 500m	Date (mm/dd/yyyy): 07/31/2013
	5	Check one: Private Data	Level 5 (nested corners sampled)
10		Data Confidentiality:	☐ Level 4 (no nested corners sampled)
	place: #10	Landowner: CNP	Plot No.: 1353
	2.10 3 4 3 a	Picnic Area	another Sugar Maple!
	5	Local Place Names: Whispering Woods	Plot Name: Wha dya know,
	The state of the s	Quadrangle:	Project Name: 01 NC 2013
	Jan 19 10 10 10 10 10 10 10 10 10 10 10 10 10	State: OH County: Lake	Project Label: PCAP
	* Proparion CATA Alsor	LOCATION	GENERAL INFORMATION
	nd Data Sneet Page 1 of 2	CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sneet	CLEVELAND METROPARKS Plant Co

Minimum required fields in Bold and Underlined *Definitions and values in CM PCAP FOM v. 1.0 and CVS Field Guide

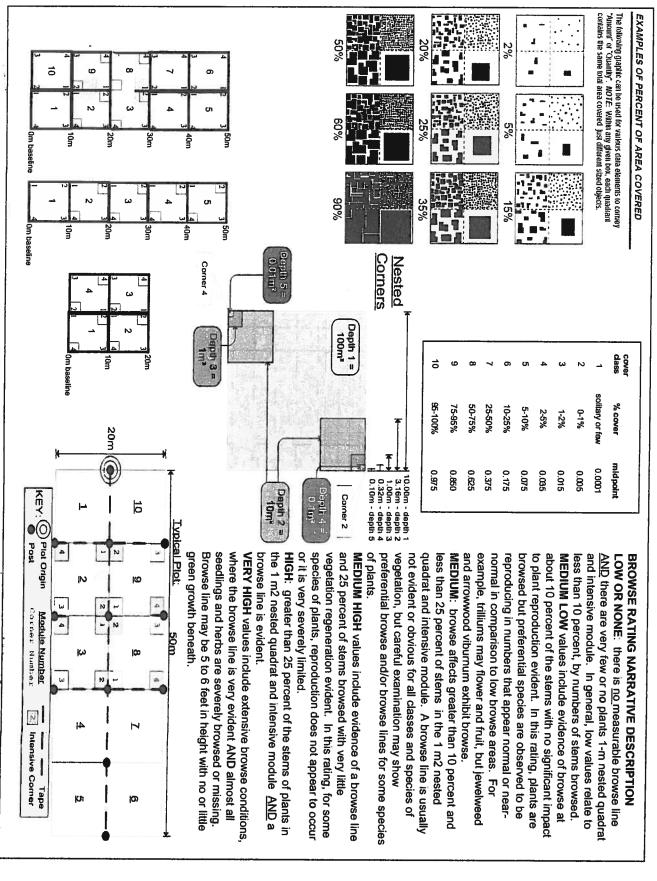
CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Shoot	baround Data	05			>	
The state of the s	kground Data	Sneet			(Clareland Maintpulse	E.
Project Label: PCAP Projec	Project Name: DINC 2013	013		Plot No.: (353	(353 Page 2 of 2	of 2
MODIFIED NATURESERVE CLASS*	DISTU	DISTURBANCES				
CODE (on separate form): Fit=Conf=	type*	severity**	yrs ago	% of plot	description	
7	Human					
•	Natural	ス	0	25	25 tree fall	
COMMUNITY NAME:	Fire					
Nixed	Cut					
	Animal	ML	0	100	der browse	
HOMOGENETTY	Other					
HOMOGENELLI	**L=low	**L=low, ML=med low, M=med	. M=med,	MH=med h	d, MH=med high, H=high, VH=very high	
Compositional trend across the plot	Current	Current Land Use: (MP	20			
□ Conspicuous inclusions □ Irregular/pattern mosaic	Former I	Former Land Use: UNK	スペ			

Upland (n/a) □ Fresh Brackish Saltwater SALINITY* (by default unless plot is a wetland) □ Temporarily flooded □ Occasionally flooded (<1/yr) □ Permanently/Semipermanent, saturated ☐ Intermittently/seasonally saturated pland (seldom flooded) (dry <1/yr, seldom flooded) (seldom flooded) □ Unknown □ Tidal/Seiche flooded irregular □ Tidal/Seiche flooded monthly □ Tidal/Seiche flooded daily Permanently flooded □ Semipermanently flooded □ Intermittently flooded (e.g. wind, storms)

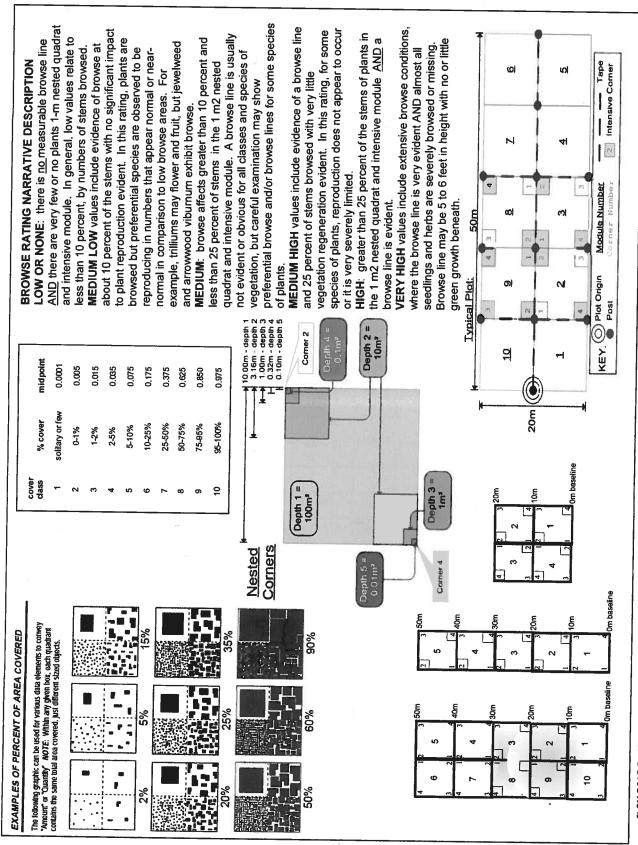
Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.)

area very close to the APT and seemingly low quality at first glance but we found sanguinaria canadense and wood fings, as well as a lot of unbrowsed Vibunum accortains. Good microhabitat from thee facts with evidence of water recently Exts point originally fell on a very steep slope. Placed plot corner on nearest point on level ground, a 8 m away. Did a 2x2 layout because of the ravine on one side and the light gap in a crescent shape around everything also. There were multiple large hatward tree falls in the plot, some still with Jeaves on the branches. It's a weird

	CLEVELAND MET	CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet	ent Program Speci	es Cover Data	Sheet		Page	Of S
	Project Label:	PCAP	Project name:	UNCZ013	Plot	1353		- 1
	Total modules:		Intensive modules:	4 Plot c	Plot configuration: 2x2	2	Plot area (ha): 04	1
	wadares: % open water entire site:		Visual est. %μανοg.o.w: entire site:		Visual est %invasives entire site	entire site:		
	ॐ		Estimate for each	mod corner mod co	comer mod comer mod	corner mod corner mod	corner mod corner mod	comer mod come
	Cleveland	Br = Browse Level. Use cover classes to	"Itelisive illoudie.	depth cov depth	cov depth cov depth	cov depth cov depth	cov depth cov depth	cov depth cov
	Matwoparks	entire plot	%unvegetated open water	_	0	0	+	7
	State Con patients		%unveg. ground (bare soil)	-	16	\vdash	 	
	T C H F I B		- %unve	- - - - - -	6	6	- 5	
	-1-	- 1	c Voucher#	depth cov depth	₽.	cov depth cov depth	cov depth cov depth	cov depth cov
	9 + 1 + 6	Acer sacharum		494	十 5 十	ナマナ	46	
	0	Quercus rubra		1+ 4	カカ		-	
		Fraxinus Sp.		1				
	(V)	MDSS Sp.		322	433	222	83212	
	2	Solidago caesia		323	222	222	2212	
ě	2	Acer Sp. (seedling)		322	222	32	222	
	75	Fraxious peoply varie	8	323	3 2	84 2 3	ナ	2
	4	Fraxious, sp. (seedling)		3 32 2	323	8423	424	
		Leersia virginica	58511-15-13	8	2			
wide	, 2	Carex 5.0. # Extresion	7 5XC-177	2 /23		22	72	2
gro lus	5 2	Viburnum aceritation	(242	3 3 2	2	2	
	0 0 0	Fagus granclifolia		222	+	6272	264	
		Divercus Sp. (seedling)		22	22	222		
)	647	Carya cordiformis		273		(X)	264	
	. 0	Polystichum achrostidoici	es	1 4 1	4 3 S	262	222	
(22	Lindera benzon		123	5242	707	4613	
	522 1	Prunus serotina		Z	6462	222	9 1	
	2	Ostrya vigiciama		N	6		125	U 1
		Trecantres sp.		7)	2	2	2:	2
	2	Ansaema triphyllun		2	2272	323	222	
		Parthenocissing guinque	Bia	-				
		1		. 2		12		
	1 2	Eurrymous abovatus		- 2	2,22	2	222	
	1	Actea alba		1 2				
			-	-				1

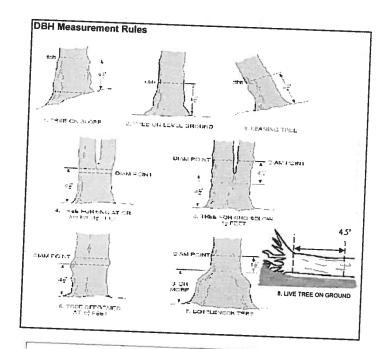


Plot configuration: 2×2 Plot area (ha): 0.04
cov depth cov de



2bCM PCAP Species Cover Data Sheet Back Page_ver 1.3.ppt

دو CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet ريو Explain subsample (additional room on back): BERSERIS THUBERS Smilax hispida Smila x rotundisolo ROSA MULTIFLORA Acer saccharum traxinus prinsylvainius Standing dead ragus grandito lia BERBERIS THUNKES Hamanelis virainiona tuonymus obovatus Standing dead Acer saccharum Prunus serotina Prunius serotina Fagus granditalia Latya cordiformis Lindera benzoin Standing dead Acer saucharum arya cord formis indera benzoit Tilia americanondera benzoin Project Label: voucher# browsed 0-1.4m stems or super sample % sub Project Name: OINC 2013 clumps shrub 00 size class (cm) woody stems >1.4m **过** 0 6 D <u>구</u> N N N 1-<2.5 . 図に図 M 2.5-<5 Plot No.: 1353 5-<10 10 - <15 15 - <20 20 - <25 Page: 25 - <30 30 - <35 으 Cleveland Metropaiks 35 - <40 ō 9.84 1,44 10% 43.0 >40 (record each tree) 61,4 = 1.44



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







2







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
- 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



C

D

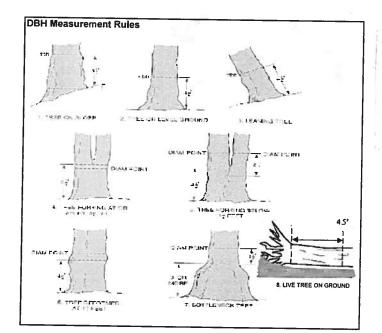
ASH CANOPY BREAKUP CONDITION (for dead trees):

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

- 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 Plant Community Assessment Program Natural Woody Stem Data Sheet Prunus serotina tagus granditalia Evonymus obovatus Ostrya virginiana Standing dead Evonymus obovatus Explain subsample (additional room on back): haxious sp. (seedling Acer saccharum Fraxinus peraylvanka indera benzain Project Label: PCAP voucher# 9 browsed 0-1.4m # stems or super sample % sub Project Name: SI NC 2013 shrub clumps 00 size class (cm) woody stems >1.4m <u>^</u> 13 2000 1-<2.5 7 2.5-<5 Plot No.: 1353 5-<10 10-<15 15 - <20 20 - <25 Page: 25 - <30 30 - <35 으 (Cleveland Metroparks 35 - <40 ŏ 63, 2, 47 >40 (record each tree) =

8



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.
- 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

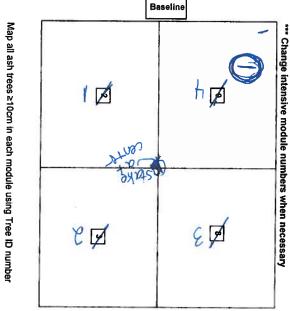
ASH CANOPY BREAKUP CONDITION (for dead trees):

(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.

* 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)

				L																				工	Module
25	24	23	22	21	20	19	18	17	16	15	14	13	12	==	10	9	8	7	6	5	4	ω	2		D Tee
																								fraxinus sp	Species
																								<	Dead
																									c Voucher#
																									DBH (cm)
										L															DBH ®
																								N	Ash condition
				-																				V	*Dead condition
																								0	# Exit Epicarmic holes present
																									Woodpecker holes



CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey



Tier 1: Early detection	/ Rapid response	Ti lini	L, U	Pres	ence		GPS	
10.2.2.3.7.0.0.00			NE	SE	sw	NW		Presence
Microstegium vimineum	Japanese stiltgrass	· ·		-				X: yes
Ranunculus ficaria	Lesser Celandine	o	П					
	Black Swallow-wort		12					7
1) Flowering Rush	- 1			 			1
Heracleum mantegazzianum	Giant Hogweed							-
Tier 2: Assess				# of	Plants		comments	1
TIEL Z. ASSESS	is inceded		NE	SE	sw	NW		# of Plants
Acer platanoides	Norway Maple	-	N-L	JE	344			1: 1-10
Ailanthus altissima	Tree of Heaven				_	 		2: 11-50.
	Japanese Honeysuckle			\vdash	-			3: 51-100
		-		\vdash	-		<u>.</u>	4: 101-1,00
		_			1			5: >1,000
Aegopodium podagraria (G-cover	Asian Bittersweet				-	 		3. >1,000
Celastrus orbiculatus (vine)				-	-			-
Torilis sp.	Hedgeparsley Poison Hemlock	\rightarrow				 		1
Conium maculatum		her. b		-	 	 		1
Rhamnus cathartica		hrub)	i e	1	1	1 , 4		+
Berberis thunbergii		hrub)		-	+	╀─┼		-
Alnus glutinosa	European Alder	-		<u> </u>		╂——┼	·	
Dipsacus laciniatus	Cut-leaf Teasel	la annu la V				 		
Elaeagnus umbellata		hrub)		<u> </u>		 		4
Lonicera maackii		hrub)			-	+	,	-
Euonymus fortunei	Wintercreeper	CONTROL OF		M - 8	Diamete	COLUMN TO		
Tier 3: Presence	s of Interest				Plants		comments	W of Dlane
			NE	SE	SW	NW		# of Plants
	Lily of the Valley				-			1: 1-10
	Crown Vetch			_	-			2: 11-50.
Eleutherococcus pentaphyllus		hrub)			-	 		3: 51-100
	Japanese Pachysandra			<u> </u>				4: 101-1,00
Philadelphus coronarius		hrub)				 -		5: >1,000
	Lungwort	-			-	 		4
Rubus phoenicolasius	Wineberry	\rightarrow			-	 		-
	Yellow Flag Iris							4
Ornithogalum umbellatum	Star of Bethlehem			<u> </u>				4
Viburnum opulus var. opulus		hrub)		<u> </u>	-			4
Viburnum plicatum	Doublefile Viburnum (sh	hrub)	_	L				4
Tier 4: Widespread	and abundant				ence		comments	
			NE	SE	sw	NW		# of Plants
Alliaria petiolata	Garlic Mustard				-	-		1: 1-10
Ligustrum vulgare		hrub)			-	-		2: 11-50.
L. morrowii, L. tatarica		hrub)		<u> </u>	\vdash	 		3: 51-100
Phalaris arundinacea	Reed Canarygrass	V		—	-			4: 101-1,0
Phragmites australis (wetland)	Phragmites			 	₩			5: >1,000
Polygonum cuspidatum	Japanese Knotweed			<u> </u>	ــــ	 		_
Frangula alnus		rub)			-	 		4
Rosa multiflora		rub)	1.	12	2	2		
Typha angustifolia, T. x.glauca	Cattails (wetland)				Ľ.			_
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)

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

Project Label: PCAP Project Name: 0 NC 2013 Module # ន Project Name: Comer

Plot No.: 1353

@ Gleveland Metruparts Page: 1 of 1

McNAB INDICES (degrees) + for up - for down FILLED OUT USING GIS PROGRAM - DO NOT FILL OUT IN FIELD]

CLASSIFICATION		
O'IT = excellent g Fit and Confidence		
Hydrogeomorphic class (WETLANDS ONLY):		
DEPRESSION	<u> </u>	Confi
□ IMPOUNDMENT □ Beaver □ Human	Fil-	Conf=
□ RIVERINE □ Headwater □ Mainstem □ Channel	1	Conf=
□ SLOPE (ground water hydrology or on a physical slop)	7	Conf=
□ FRINGING □ Reservoir □ Natural Lake	Ē	Conf≐
□ COASTAL (specify subclass)		Conf=
BOG (strongly, moderately, weekly ombrotrophic)	File	Conf=
Ohio EPA VIBI Plant Community Class (WETLANDS ONLY):	ίτη:	
□ FOREST □ swamp forest □ bog forest □ forest seep □ EMERGENT □ marsh □ wet meadow □ open bog		Conf=

MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only

Slope 1 = slight elevational grade across module (hill) anks 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

		4	S	ىع		mod#					e	
						corner						7
	(O	9	0	0	(count)	lxlm	depth 3		tussocks	no. of	
		0	-		0	(count)	3.16x3.16m	depth 2	uplands (Tip-Ups)	hummocks	no of	
		3	3	3	0	(count)	10x10m	depth !		depressions	по. тасго.	
		a5		نچ	20	(count)	10x10m	depth 1		(2-12 cm)	c w.d	c.w.d cou
		ע	<u>る</u>	7		(count)	10x10m	depth t		(12-40cm)	c.w.d	c.w.d count for pieces with minimum 1m length
		0	1	للنا	0	(count)	10x10m	depth 1		>40 cm	c.w.d	ninimum 1m lengt
	,	4	4	V	ഉ	(rank)	10x10m	depth 1		interspers.	microhab.	
		0	0	0	0	(rank)	10x 10m	SLOPE			nucrohab	

" Terrain Shape Index (site microtopographic shape) Landform Index (position within landscape) +315 degrees

+270 degrees

€

away. standing ~10 m

Z

+225 degrees

SW

e) e of person

angle from

+180 degree +135 degrees

æ

+45 degrees +90 degree:

H

horizon. TSI is angles formed by local slopes. For TSI measure

LFI is angle of plot to the

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

7 - 2	13 8 13	8 8 2	z 14 iC	Moduke N S	contraction of the form of the first advance.
か め		13 4	7 12 11	E W	uaic/

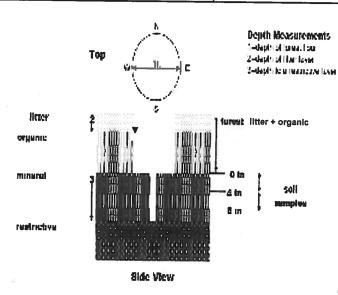
COVER BY STRATA

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.



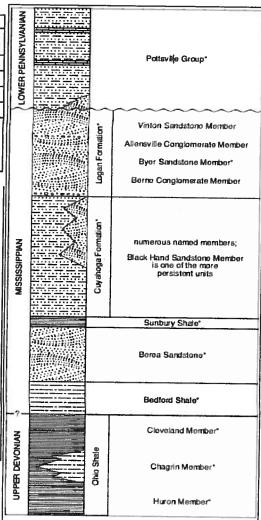


FIGURE 3-20.—Generalized section of Upper Devoman. Missemppan. and Lower Pennsylvanian formations in northeastern Ohio Asterisks indicate units that are fossiliferous. This composite section represents about 400 meters of rock exposed across the area. The section is not to scale but the thicknesses indicated 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 Mississpian 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 spectacular massive sandstone that is fairly undespread but discontinuous. See Hyde (1953), Hoover (1960), and Collms 1979) for more information on Mississippian rocks in Ohio. See figure 3-18 for explanation of rock types.

CLEVELAND METROPARKS Plant Community Assessment Program - Soils, Crown Cover, Standing Biomass Data Sheet 6a

Project label: PCAP Project Name (2 NC 20) 3

Plot No.: 1353

Cityreland Metroparks

Page: 1 of 1

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

Soil pit module # (one per entire plot) 20 cm matrix color 5 cm matrix color 2.54 hydr. cond.*** oxid roots redox features** lexture* oxid roots redox features** mottle mortle ottle color ittle color IS M D Ý) z Z (2)

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

hydro. cond.***

IS (A) D

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

I small when present which down soil was, the wants soil pit.

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

Somewhat poorly dr. Uvery poorly dr.	□ Excessively dr. □ Somewhat excessively	DRAINAGE*	Parent Material:	Depth to rest. Layer: 80+ in thes	Landform type: Till plains	Soil Series Source: Ohio Soil Survey	Soil Series Type: Mg.A - Mahan by Sily loam	Web Soil Survey Information:	2,36,9 composited A	Soil Collection Module Horizon (A. B. C)
				10)CM	470		3			

□ Impermeable surface SS 8/2/13

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

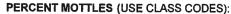
	1 litter+ organic depth	2 litter	water depth	depth sat
mod#	(cm)	depth (cm)	(cm)	soil (cm)
)	0.5	0.5	Ø	>30
2	3.0	30	Ø	350
3	25	2.5	Ø	730
4	0.5	0.5	Ø	\ Z D

EARTH SURFACE & GROUND COVER	CE & GROUP	ID COVER	
Underlying Earth Surface*	Surface*	Ground Cover	
(Sum = 100%)	percent	(Each ≤ 100%)	percent
Histosol	0	Coarse Woody Debris***	5 ℃
Mineral Soil	96	Fine Woody Debris****	الو
Gravel-Cobble*	ಬ	Litter	58
Boulder**	ຍ	Duff (Ferm.+ Humus)	O
Bedrock	0	Bryophyte- Lichen	2
* Gravel-Cobble = 1/16-10"	· 1/16 - 10*	Water	0
**Boulder = > 10 in	5	Bare Soil	01
*** >5 cm in diameter	eter	Road/Trail	0
**** <5 cm in diameter	meter	Other	MA

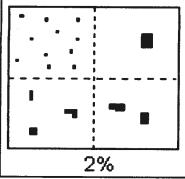
COVER BY STRATA estimate using midpoi	COVER BY STRATA estimate using midpoints of 5,ex:3, 8, 13	,ex:3, 8, 13
Strata	Height Range (m)	Total Cover (%)
Tree	5 -	28
Shrub	.5 . 5	98
Herb	0 - 5	73
(Floating)*	•	0
(Aquatic)*	•	0
* rooted and fic	• rooted and floating or slightly emersed	sed
** submersed,	** submersed, most plant mass below surface	w surface
SEE BACK OF	SEE BACK OF PAGE FOR "TYPICAL"STRATA DESCRIPTIONS, STRATA CAN VARY BY CO	SEE BACK OF PAGE FOR "TYPICAL"STRATA DESCRIPTIONS, STRATA CAN VARY BY COVER TYPE.

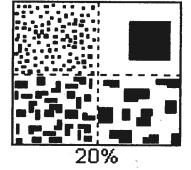
□ Deer	□ Gravel	Boofleg unsanctioned	o Hiking sancti and	a Bridle) O	□ All Purpose	Туре	record type and cover for each	TRAIL INFORMATION:
				"		%Cover	each	••

|--|



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





Terraces

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

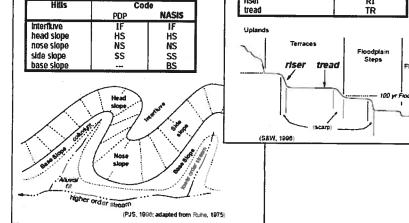
9= Not measured - make plot note

Position

shoulder

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.



Hilstope - Profile Position (Hillstope 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.

	backslope footslope toeslope	BS FS TS		
-	Su Sh Bs	Fs arrai	Sh Su	_
	(PJD, 1986; accord tron Ruht, 1	Ts Ts		

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

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.

Code

RI

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.

								ORM B-1: BUFFER SAMPLE PLOTS (Front) Reviewed by (Initial):															
Site	ID:	PC	AF	2	N)	135	DATE: 07/31/2013 Fill in bubble(s) if plot(s) could not be sampled and flag															
Locati	on:				777	70			Fill	in b	ubb	le(s) if p	olot(s) co	uld not be	sampled and	flag	→	Г			
@ AA	Center	C	N	0	S	01	E 0	W	OF	lot	1	0	Plot	2	01	Plot 3							
Fill in bubble Strata Section	es for all ti on: Fill in	hat ap _l approp	ply: Ca orlate o	nopy cover	Type:	D = [Deciduou e for eac	s: E = Everare	Buffer en. Leaf T er each plo	vpe: E	3 = Br	oadlea	f: N =	Need	e Leaf.	Absent: No tree canopy. //oderate(10-40%); 3 = Heavy (40-75%); 4 = Very Heavy (>75%)							
Buffer	Canop	у Тур	e: 🌘	() A	bsen	t: O	Buffer	Canop	у Тур	e: () () A	bsen	t: O	Buffer	Canopy Type: (<u> </u>) AI	osen	: O		
Plot 1	Lea	f Typ	e: 🕡) (Flag	Plot 2	Lea	f Typ	e: (\overline{C}			Flag	Plot 3	Leaf Type: (<u> </u>			Flag		
Big Trees (>	0.3m DBH	0		0	0	0		Big Trees (>	0	0	0	0		Big Trees	(>0.3m DBH)		0	0					
Small Trees (<	<0.3m DBH	0		0	0	0		Small Trees (<	<0.3m DBH)	0	0	0	0	0		Small Trees	(<0.3m DBH)		0	0			
Woody Shrubs (0.5m-	s, Saplings -5m HIGH)	0	0	0	0			Woody Shrubs (0.5m-	s, Saplings -5m HIGH)	0	0	0	0	0		Woody Shru (0.5	bs, Saplings m-5m HIGH)	0	0	0			
Woody Shrubs (<0.	s, Saplings .5m HIGH)	0	0		0	0		Woody Shrubs, Saplings (<0.5m HIGH)					0	0		Woody Shrul	bs, Saplings 0.5m HIGH)	0	0	0			
Herbs, F	orbs and Grasses		0		0	0		Herbs, Forbs and Grasses					0	0			Forbs and Grasses O	0	0	0			
Bare	ground	0	0	0	0	0		Bare	ground	0	0	0	0	0		Bar	e ground ① ①		0	0			
Lit	ter, duff	0	0	0	(0		Lit	ter, duff	0	0	0	0	0		Li	+ =	0	O				
	Rock		0	②	0	0			Rock	0	0	0	3	Ō			Rock ① ①	+=	0	Ō			
	Water	<u>•</u>	0	0	0	0		•	Water	0	$\overline{\mathbb{C}}$	<u></u>	0	$\frac{\circ}{\circ}$			Water ① ①	+=	0	$\frac{9}{0}$			
	bmerged		0	0	0	ō			bmerged	0		0	0	$\frac{\circ}{\circ}$			Submerged (0	\odot	\odot			
	egetation or Pres			\sim			rm that		egetation bubble in						unfilled		vegetation C		\sim				
Resi	dential	and	Urba	an Si	tres	sors		ŀ	lydrolo	gy S	tres	sors	4,			,	Agricultural & R	ural S	Stres	sors			
Flii bubbie	if prese	ent - I	Piot	1	2	3	Flag	Fill bubble		_	_	1	2	3	Flag		if present - Piot	1	2	3	Fiag		
Road - gra				0	0	0		Ditches, Ch		-		0	0	0		Pasture/Ha		0	0	0			
Road - two				0	0	0		Dike/Dam/F	Road/RR			ŏ	ō	0		Range	0	O	0				
Road - fou	ır lane			0	0	0		Dike/Dam/Road/RR Bed (IMPEDE FLOW) Water Level Control Structure					ō	0		Row Crops			0	0			
Parking Lo	ot/Paven	nent		Ō	0	O		Excavation	, Dredgin	ıg		0	ō	ō		Fallow Field (RECENT-RESTING ROW CROP FIELD)			0	0			
Golf Cours	se		Na	0	0	O		Fill/Spoil Ba	anks		44.50	0	0	0		Fallow Field	(OLD - GRASS,	0	0	O			
Lawn/Park		Ne l		0	0	0		Freshly De		Sedim	ent	0	O	0		SHRUBS, TRE	ESI	0	O	0			
Suburban	Residen	tial		0	0	0		Soil Loss/R		sure		0	0	0		Dairy		0	0	O			
Urban/Mul	tifamily			0	0	0		Wall/Riprap)			0	0	0		Orchard		0	O	0			
Landfill	SERVE	173		0	0	0		Inlets, Outle	ets	Mar	A LAN	0	0	0		Confined A	nimal Feeding	0	0	0			
Dumping				0	0	0		Point Source (EFFLUENT O		VATER)	0	0	0		Rural Resid	lential	0	0	0	·		
Trash				0	0	0		Impervious (SHEETFLOW	surface	input		0	0	0		Gravel Pit		0	0	0			
Other:				0	0	0		Other:	(4.624)			0	0	0		Irrigation		0	0	0			
Other:				0	0	0		Other:				0	0	0		Other:		0	0	0			
Indus	strial D	evelo	pme	ent S	itres	sor	3					ı	labit	tat/V	egeta	tion Stress	ors				NA.		
Fiii bubbie	if prese	ent - F	Plot	1	2	3	Flag	Fili bubble	If preser	nt - F	Piot	1	2	3	Flag	Fiii bubbi	e if present - Plot	1	2	3	Flag		
Oil Drilling	B. UB			0	0	0		Forest Clear	Cut	200		0	0	0		Herbicide Us	se	0	0	0			
Gas Wells		15		0	0	0		Forest Selec	-			0	0	0		Mowing/Shri		0	0	0			
Mine (surfa	ace)				_	_	$\overline{}$	Tree Plantati	E-V-T-			0	0	0		Trails		0	0	0			
Mine (unde	ne (surface) O O O ne (underground) O O O					Tree Canopy		ry		0	0	0		Soll Compac	tion	0	0	Ö					
	3					-		(INSECT) Shrub Layer	Browsec	i	-	0				(ANIMAL OR HU			\rightarrow				
Military				0	0	의		WILD OR DOME	ESTIC)				0	0		Offroad vehi		0		0			
Other:						Pecently Burned Forest				0	0	0		Soil erosion (FROM WIND, WATER, OR OVERUSE)			0	0					
Other:					Posenthy Rumod Consoland			0	0	0		Other:				0							
Other:		_		0	0	0		Recently Burned Grassland (BLACKENED)				0	0	0		Other: O O O							
	ig codes: iffer San					Expl	U = St ain all fl	spect measurags in comme	rement., ent section	F1,F2 n on t	, etc. ¹ he ba	misc ck of t	his fo	s assi m	gned by	each field cre	242	8168	304				

Site ID:	D	Λ.	2	N 1 C	1252	DAT	<i>6</i>	1 -	, ,	Reviewed by	/ (Initia):		
Site iD:	T	#	_	NC	. 1353	DAI	E: C		نے ار	3112013				
Confirm	a fiile	ed da	ta b	ıbbie iı	ndicates presence and an unf	iiied l	oubbl	e inc	licates	absence by filling in this bubi	oie			
Fill bubble if present - Piot	1	2	3	Fiag	Fili 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	DAS SIMILA
Yellow Floating Heart	0	0	0	1970	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 Trefoll	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	
								7.5		Other:	0	0	0	
					PLOT COORI	DINA	TES		Olla					
AA CENTER O N Latitude I		0 s:		O E3	8.0.9.8.	Lon	gituc	le V		and comment below)	9.			
Flag Comments					Use Decimal Degi	965;	NAU	83						
														-
					3									

				ijij,			FOF	RM B-1:	B-1: BUFFER SAMPLE PLOTS (Front) Reviewed by (initial):												
Site I	D: \f	CA	101	NC	1	35	3		DATE: 07 30 20 3												
Location	on:		A STATE		Mar.				Fill	in b	ubb	le(s)	if pl	ot(s) cou	ld not be	sampled and fl	ag –	→		
OAAC	enter	0	N	0	S	OE	0	W	OP	lot		01	Plot 2	2	OP	lot 3					
Fill in bubble Strata Section	es for all th	nat app approp	oly: Ca	nopy 1	Гуре: I lass b	D = Double	eciduous for each	· F = Evenor	Buffer en. Leaf T or each plo	vne F	l = Rm	adleaf	. N = N	leedle	Leaf A	bsent: No tred derate(10-40)	e canopy. %); 3 = Heavy (40-75%);	, 4 = V	ery He	avy (:	>75%)
Buffer	Canop	у Тур	e: () () Ab	sent	: 0	Buffer	Canopy	/ Тур	e: 🧌) (sent	: 0	Buffer	Canopy Type:	0	Abs	sent:	-
Plot 1	Lea	f Typ	e: 0) (Flag	Plot 2 Leaf Type: Flag Big Trees (>0.3m DBH)							Plot 3	Leaf Type:	Θ	ㅡ		Flag	
Big Trees (>	0.3m DBH)	0	0	0		9		Big Trees (>0.3m DBH)					ā t	0			(>0.3m DBH)		- 1		
mall Trees (<		1	0	0	(<u> </u>		Small Trees (<0.3m DBH) 0 1 Woody Shrubs, Saplings					9			Small Trees		9			
	-5m HIGH)	_	0	0		0		(0.5m-5m HIGH) Woody Shrubs, Saplings					= +	<u> </u>		(0.5	im-5m HIGH)	0		의	
	.5m HIGH)		0		0	0		(<().5m HIGH)	0	0		0	<u> </u>		(•	bs, Saplings <0.5m HIGH)	0	9	<u> </u>	
Herbs, F	orbs and Grasses	0	0	0	0			Herbs,	Forbs and Grasses	0		0	0	<u> </u>		Herbs	Forbs and Grasses O	0	<u> </u>	<u> </u>	
Bare	ground	0	0		0	0		Bare	ground	0		0	0	\odot		Bai	re ground 💿 🧶	0	<u> </u>	0	
Lit	ter, duff	0	0	0		0		Litter, duff ① ①					0			L	itter, duff 🕕 🕦	0	0		
	Rock	0	0	0	0	0		Rock 🕖 🛈					0	0			Rock 🕢 🛈	0	0	0	
	Water		Ō	0	0	0		, -	Water	(29)	0	0	0	0		Water 0			0	<u> </u>	
	ubmerged		0	0	0	0			ubmerged /egetation		0	0	0	0			Submerged Vegetation	0	0	0	
	egetation or Pres		e/Ab	senc	_	Confi	rm that			ndica	tes pi	resen	ce and	an ı	unfilled	bubble indi	cates absence by filli	ng thi:	s bub	ole.	•
Resi	idential	and	Urb	an S	tress	sors			Hydrolo	gy S	Stres	sors					Agricultural & Ru	ral S	tress	ors	
Fili bubbic	e if pres	ent -	Piot	1	2	3	Flag	Fill bubbl	e if prese	ent -	Plot	1	2	3	Flag	Fill bubbi	e If present - Piot	1	2	3	Flag
Road - gra		0		0	0	0		Ditches, C				0	0	0		Pasture/Ha	ay	0	0	o	
Road - tw				0	0	0		Dike/Dam	/Road/RF			0	0	Ö		Range			0	0	
Road - for	1		7.11	0	0	0		(IMPEDE FLOW) Water Level Control Structure					0	0		Row Crops			0	O	
Parking L		nent		0	0	0		Excavatio	n, Dredgi	ng		0	0	0		Fallow Field (RECENT-RESTING ROW GROP FIELD)			0	0	
Golf Cour				0	0	O		Fill/Spoil 6	Banks		X	0	0	0		ROW GROP FIELD) Fallow Field (OLD - GRASS, SHRUBS, TREES)			0	0	
Lawn/Par			NUL I	0	0	0		Freshly D		Sedir	nent	0	0	0		Nursery		0	0	0	
Suburban	Resider	ntial	-	0	0	0		Soil Loss/		osur	•	0	0	0		Dairy		0	0	0	
Urban/Mu	ıltifamily	- 17		0	0	0		Wall/Ripra	ар			0	0	0		Orchard		0	0	0	
Landfill				0	0	0		inlets, Ou	tlets	5 1		0	0	0		Confined /	Animal Feeding	0	0	0	
Dumping				0	0	0		Point Sou (EFFLUENT	rce/Pipe	WATE	R)	0	0	0		Rural Res	idential	0	0	0	
Trash				0	0	0		(SHEETFLO	is surface	inpu	ť	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	
Indu	strial C	Deve	lopm	ent :	Stres	son	S						Habitat/Vegetation				sors				
Fiii bubbi	Industrial Development Stressors bubble if present - Plot								e if prese	nt -	Piot	1	2	3	Flag	Fill bubl	bie If present - Piot	1	2	3	Flag
Oil Drilling	9		100	0	0	0		Forest Cle	ar Cut			0	0	0		Herbicide (Use	0	0	0	
Gas Well	s	7/10		0	0	0		Forest Sel	ective Cu	t		0	0	0		Mowing/Sh	rub Cutting	0	0	0	
Mine (sur	ine (surface)						Tree Plant	ation			0	0	0		Trails		0	0	0		
Mine (und	ine (underground)						Tree Plantation Tree Canopy Herbivory (INSECT)			0	0	0		Soil Compaction (ANIMAL OR HUMAN)			0	0			
Military							Shrub Lay	er Browse	ed		0	0	0			hicle damage	0	0	0		
Other:	High					(WILD OR DOMESTIC) Highly Grazed Grasses (OVERALL <3" HIGH)			0	0	0		Soil erosio	n (FROM WIND, WATER, E)	0	0	0				
Other:	Recent						Recently E	ecently Burned Forest OOO					UK OVEROSE!			0	0				
Recer					Recently Burned Grassland O O O Other: O O O																
Other: U Suspension of the Control o						(BLACKENED) Suspect measurement., F1,F2, etc. = misc. flags assigned by each field crew. 2428168304 flags in comment section on the back of this form															
	Buffer Sa	mple	Plot	s 05	5/27/			tiags in com	ment secti	on or	tne D	ack of	cnis fo	onth		on non-	as ar Wigner				ani I

Site ID:	_ F	20	97	W C	. 1353	DAT	E: _	07	3.1.2013			
O Confirm	a filie	ed da	ta bı	ubbie i	ndicates presence and an uni	filled	bubb	le Indica	tes absence by filling in this bu	ble		
Fili bubble if present - Piot	1	2	3	Fiag	Fill bubble if present - Plot	1	2	3 F	ag Fili bubble if present - Pio	1	2	Ta
Eurasian Watermilfoil	0	0	0		Purple Loosestrife	0	0	0	Johnson Grass	0	0	10
Water hyacinth	0	0	0		Knotweed	0	0	0	Kudzu	0	0	C
Yellow Floating Heart	0	0	0		Japanese Knotweed	0	0	0	Multiflora Rose	0	0	C
Giant Salvinla	0	0	0		Perennial Pepperweed	0	0	0	Common Buckthorn	0	0	C
Garlic Mustard	0	0	0		Giant Reed	0	0	0	Himalayan Blackberry	0	0	C
Poison Hemlock	0	0	0		Cheatgrass	0	0	0	Tamarisk	0	0	C
Mile-A-Minute Weed	0	0	0		Reed Canary Grass	0	0	0	Other:	0	0	c
Birdsfoot Trefoil	0	0	0		Common Reed	0	0	0	Other:	0	0	C
Canada Thistle	0	0	0		Leafy Spurge	0	0	0	Other:	0	0	C
									Other:	0	0	0
					PLOT COORE	DINA	TES	Time:				
If Buffer Plot 3 can not be acc Plots are centered on the Buff flag box, and describe where t either placed as close to the c Location of coordinate O AA CENTER O N3	esseder Tra	d, tak anser coordir of Pl	e the cts a nates lot 3	e appro e coordi nd the c were to as poss ne):	inates at the nearest practicable coordinates will indicate the locaken and why in the comment solble or at the center of the last	e loca ation section acces	tion A of the n belossible	LONG T transect w. The c Buffer P	ag and comment below)	becau ation* ble loc	se al	Bule,
If Buffer Plot 3 can not be acc Plots are centered on the Buff flag box, and describe where t either placed as close to the c Location of coordinate O AA CENTER O N3	esseder Tra	d, tak anser coordir of Pl	e the cts a nates lot 3	e appro e coordi nd the c were to as poss ne):	inates at the nearest practicable coordinates will indicate the local aken and why in the comment solble or at the center of the last	e loca ation osection acces cticat	tion A of the n belo ssible	LONG T transect w. The c Buffer P	HE TRANSECT. This is important Fill in the "nearest practicable loc coordinates of the nearest practical ot.	becau ation* ble loc	se al	Bule,
If Buffer Plot 3 can not be acc Plots are centered on the Buff flag box, and describe where t either placed as close to the c Location of coordinate O AA CENTER O N3	esseder Tra	d, tak anser coordir of Pl	e the cts a nates lot 3	e appro e coordi nd the c were to as poss ne):	inates at the nearest practicable coordinates will indicate the locate and why in the comment solble or at the center of the last O W3 O Nearest practicable or at the center of the last	e loca ation osection acces cticat	tion A of the n belo ssible	LONG T transect w. The c Buffer P	HE TRANSECT. This is important Fill in the "nearest practicable loc coordinates of the nearest practical ot. lag and comment below)	becau ation* ble loc	se al	l Bulle,
If Buffer Plot 3 can not be acc Plots are centered on the Buff flag box, and describe where t either placed as close to the c Location of coordinate O AA CENTER O N3 Latitude N	esseder Tra	d, tak anser coordir of Pl	e the cts a nates lot 3	e appro e coordi nd the c were to as poss ne):	inates at the nearest practicable coordinates will indicate the locate and why in the comment solble or at the center of the last O W3 O Nearest practicable or at the center of the last	e loca ation osection acces cticat	tion A of the n belo ssible	LONG T transect w. The c Buffer P	HE TRANSECT. This is important Fill in the "nearest practicable loc coordinates of the nearest practical ot. lag and comment below)	becau ation* ble loc	se al	Bu
If Buffer Plot 3 can not be acc Plots are centered on the Buff flag box, and describe where t either placed as close to the c Location of coordinate O AA CENTER O N3 Latitude N	esseder Tra	d, tak anser coordir of Pl	e the cts a nates lot 3	e appro e coordi nd the c were to as poss ne):	inates at the nearest practicable coordinates will indicate the locate and why in the comment solble or at the center of the last O W3 O Nearest practicable or at the center of the last	e loca ation osection acces cticat	tion A of the n belo ssible	LONG T transect w. The c Buffer P	HE TRANSECT. This is important Fill in the "nearest practicable loc coordinates of the nearest practical ot. lag and comment below)	becau ation* ble loc	se al	l Bulle,
If Buffer Plot 3 can not be acc Plots are centered on the Buff flag box, and describe where t either placed as close to the c Location of coordinate O AA CENTER O N3 Latitude N	esseder Tra	d, tak anser coordir of Pl	e the cts a nates lot 3	e appro e coordi nd the c were to as poss ne):	inates at the nearest practicable coordinates will indicate the locate and why in the comment solble or at the center of the last O W3 O Nearest practicable or at the center of the last	e loca ation osection acces cticat	tion A of the n belo ssible	LONG T transect w. The c Buffer P	HE TRANSECT. This is important Fill in the "nearest practicable loc coordinates of the nearest practical ot. lag and comment below)	becau ation* ble loc	se al	l Bulle,
If Buffer Plot 3 can not be acc Plots are centered on the Buff flag box, and describe where t either placed as close to the c Location of coordinate O AA CENTER O N3 Latitude N	esseder Tra	d, tak anser coordir of Pl	e the cts a nates lot 3	e appro e coordi nd the c were to as poss ne):	inates at the nearest practicable coordinates will indicate the locate and why in the comment solble or at the center of the last O W3 O Nearest practicable or at the center of the last	e loca ation osection acces cticat	tion A of the n belo ssible	LONG T transect w. The c Buffer P	HE TRANSECT. This is important Fill in the "nearest practicable loc coordinates of the nearest practical ot. lag and comment below)	becau ation* ble loc	se al	l Bulle,
If Buffer Plot 3 can not be acc Plots are centered on the Buff flag box, and describe where t either placed as close to the c Location of coordinate O AA CENTER O N3 Latitude N	esseder Tra	d, tak anser coordir of Pl	e the cts a nates lot 3	e appro e coordi nd the c were to as poss ne):	inates at the nearest practicable coordinates will indicate the locate and why in the comment solble or at the center of the last O W3 O Nearest practicable or at the center of the last	e loca ation osection acces cticat	tion A of the n belo ssible	LONG T transect w. The c Buffer P	HE TRANSECT. This is important Fill in the "nearest practicable loc coordinates of the nearest practical ot. lag and comment below)	becau ation* ble loc	se al	l Bulle,
If Buffer Plot 3 can not be acc Plots are centered on the Buff flag box, and describe where t either placed as close to the c Location of coordinate O AA CENTER O N3 Latitude N	esseder Tra	d, tak anser coordir of Pl	e the cts a nates lot 3	e appro e coordi nd the c were to as poss ne):	inates at the nearest practicable coordinates will indicate the locate and why in the comment solble or at the center of the last O W3 O Nearest practicable or at the center of the last	e loca ation osection acces cticat	tion A of the n belo ssible	LONG T transect w. The c Buffer P	HE TRANSECT. This is important Fill in the "nearest practicable loc coordinates of the nearest practical ot. lag and comment below)	becau ation* ble loc	se al	l Bulle,
If Buffer Plot 3 can not be acc Plots are centered on the Buff flag box, and describe where t either placed as close to the c Location of coordinate O AA CENTER O N3 Latitude N	esseder Tra	d, tak anser coordir of Pl	e the cts a nates lot 3	e appro e coordi nd the c were to as poss ne):	inates at the nearest practicable coordinates will indicate the locate and why in the comment solble or at the center of the last O W3 O Nearest practicable or at the center of the last	e loca ation osection acces cticat	tion A of the n belo ssible	LONG T transect w. The c Buffer P	HE TRANSECT. This is important Fill in the "nearest practicable loc coordinates of the nearest practical ot. lag and comment below)	becau ation* ble loc	se al	l Bulle,
If Buffer Plot 3 can not be acc Plots are centered on the Buff flag box, and describe where t either placed as close to the c Location of coordinate O AA CENTER O N3 Latitude N	esseder Tra	d, tak anser coordir of Pl	e the cts a nates lot 3	e appro e coordi nd the c were to as poss ne):	inates at the nearest practicable coordinates will indicate the locate and why in the comment solble or at the center of the last O W3 O Nearest practicable or at the center of the last	e loca ation osection acces cticat	tion A of the n belo ssible	LONG T transect w. The c Buffer P	HE TRANSECT. This is important Fill in the "nearest practicable loc coordinates of the nearest practical ot. lag and comment below)	becau ation* ble loc	se al	l Bulle,

05/27/2011

Buffer Sample Points - Targeted Alien Species

	7.4 1 7.5.						FOF	RM B-1:	B-1: BUFFER SAMPLE PLOTS (Front) Reviewed by (initial):												
Site I	D: P	CA	P	No		13	5	3	DATE: 07/31/2013 Fill in bubble(s) if plot(s) could not be sampled and flag →												
Location	on:		NA.				(A)()	100.17	FIII	in b	ubb						sampled and f	ag -	→		
OAAC	enter	0	N	0	3	0 E	0	W		lot			lot 2		OP	ot 3					
Fill in bubble Strata Section	s for all the on: Fill in a	at appi ppropi	ly: Car riate co	nopy T over c	ype: [lass b	D = De ubble	eciduous for eact	s; E = Evergn strata type f	Buffer een. Leaf T or each plo			adlast	NI - NI	مالمه	Leaf. Al); 2=Mo	osent: No tre derate(10-40	е сапору. %); 3 = Heavy (40-75%)	; 4 = V	ery He	avy (>	75%)
Buffer Plot 1	Canopy	Туре	_ <u>~</u>) (<u>·</u>	1-	sent	: O	Buffer Plot 2		Canopy Type: (a) (a) Absent: Deaf Type: (b) Canopy Type: (c) Canopy Type: (c) Canopy Type: (c) Canopy Type: (d) Canopy Type:								① 4 ① (Abs	ent:	O Flag
Big Trees (>	0,3m DBH)	ा	$\overline{0}$			0		Big Trees (>0.3m DB H)	0	(1)	0	0 0	<u> </u>		Big Trees	(>0.3m DBH)	0	0	0	
mall Trees (<	0.3m DBH)	$\overline{\odot}$	Ŏ	0	Ō	0		Small Trees	(<0.3m DBH)	0	0	0	0	<u></u>		Small Trees	(<0.3m DBH) 0		0	0	
Woody Shrubs	s, Saplings -5m HIGH)	0	Ō		0	0	_	Woody Shrul	os, Saplings n-5m HIGH)	0	0	0	(0		Woody Shr (0.	ubs, Saplings 5m-5m HIGH)	0		0	
Noody Shrubs	s, Saplings	$\tilde{\odot}$	_	0	ŏ	Ō		Woody Shrul		0	(0		0			ubs, Saplings <0.5m HIGH)	0	0	0	
	orbs and	0	ŏ		Ö	Ō			Forbs and Grasses	Ō	Ō	(0	<u></u>		Herbs	Forbs and Grasses	0	0	0	
Bare	Grasses ground	0	ŏ		Ŏ	Ö		Bar	e ground	0	Ō		0	Ō		Ва	re ground 🗿 🥙	0	0	0	
	ter, duff	0	\odot		0	Ö		ī	Itter, duff	0	Ō			Ō			Litter, duff	0		0	
	Rock	<u>(a)</u>	0	0	0	0			Rock	<u>@</u>	ō	0		Ō			Rock 🕖 🔾	0	0	0	
	Water		\odot	0	0	0			Water		0	0		ŏ			Water 🗐 🕦	0	0	0	
S	ubmerged		$\frac{1}{2}$	<u>)</u>	0	$\overline{0}$			Submerged		<u></u>	0	0	$\tilde{\odot}$			Submerged Vegetation	0	0	0	
Stropp	egetation	enc		\sim	\sim	\sim	rm that		Vegetation a bubble		ates p	resen	\succeq_{\perp}	anı	unfilled	bubble ind	cates absence by fill	ing thi	s bub	ble.	9
	idential				-				Hydrold	All Address of the	1000	-		Lis.			Agricultural & R				
Fill bubble				1	2	3	Flag	Fill bubb				1	2	3	Flag	Fili bubbi	e if present - Plot	1	2	3	Flag
		8111-1	100			0		Ditches, (ayus.	-	0	0	0		Pasture/H	ay	0	0	0	
Road - gr		_		0	0	0		Dike/Dan	/Road/RI	_	_	0	0	0		Range			0	0	
Road - fo				0	0	0		Water Le		ol Str	ucture	-	0	0		Row Crops			0	0	
Parking L		nent	_	0	0	Ö			n, Dredgi	_		0	0	0		Fallow Fie	Id (RECENT-RESTING	0	0	0	
Golf Coul				0	0	0		Fill/Spoil	Banks			0	0	0			eld (OLD - GRASS.	0	0	0	
Lawn/Par		100	183	0	ō	0		Freshly D		Sedi	ment	0	0	0		Nursery		0	0	0	
Suburbar		ntial		o	0	0			/Root Exp	osur	е	0	0	0		Dairy		0	0	0	
Urban/Mu	ultifamily	gr ² F		0	0	0		Wall/Ripr	ар			0	0	0		Orchard		0		0	
Landfill			1	0	0			Inlets, Ou	ıtlets			0	0	0		Confined	Animal Feeding	0	0	0	
Dumping				0	0	0		Point Sou	rce/Pipe		R)	0	0	0		Rural Res	sidential	0	0	0	
Trash				0	0				us surface			0	0	0		Gravel Pi		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	
Indu	ustrial C)evel	opm	ent	Stre	ssor	s						Habit	tat/V	egeta	tion Stres	ssors				
Fill bubb	le if pres	ent -	Plot	1	2	3	Flag	Fill bubb	le if pres	ent -	Plot	1	2	3	Flag	Fill bub	ble if present - Plo	1	2	3	Flag
Oil Drillin			10	0	0	0		Forest Cle	ear Cut			0	0	0		Herbicide	Use	0	0	0	
Gas Wel	ls			0	0	0		Forest Se	lective Cu	ıt		0	0	0		Mowing/S	hrub Cutting	0	0	0	
Mine (su				0	0	0		Tree Plan	000	No.		0	0	0		Trails		0	0	0	
	dergroun	ıd)		0	0	0	,	Tree Can		vогу		0	0	0		Soil Comp		0	0	0	
-	- Grand			0	0	-		(INSECT) Shrub Lay	er Brows	ed		0	0	0			ehicle damage	0	0	0	
Military	- 6.51	3	-	0	_	1		(WILD OR D Highly Gr	azed Gras	sses		0	0	0		Soil erosi	ON (FROM WIND, WATER	_	0	0	
Other:			-	_	10	+		(OVERALL <	3" HIGH) Burned Fo	orest		0	0	0		OR OVERUS	iE)	0	0	0	
Other:		-		0	0	+-		Canopy	Burned G			-		0			- 10 (ds	0	0	0	
Other:				0		-		(BLACKENE	D)			0	0	二	loned b			1			
	Flag code					Ex	olain all	Suspect me flags in con	nment sec	tion o	n the	oack of	this fo	orm Ja asi	-Sugar	, can not	24	2816	830 ₄	4 (

Buffer Sample Plots 05/27/2011

1 barbery, rosa 2

Site ID:	P	CA	P	NO	2013	DAT	re:	0 -	7 1	Reviewed to 3.1.7.20.13	y (mata			
	- 27	110000	100			_	_	-		absence by filling in this bub				-
Fill bubble if present - Piot		2	3		Fili bubble if present - Plot	1	2	3	Flag	T	Г	1.		_
Eurasian Watermilfoil	0	0	0		Purple Loosestrife	0	0	0	riag	Fili bubble if present - Plot Johnson Grass	1	2	3	FI
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	-72
Glant Salvinia	0	0	0		Perennial Pepperweed	0	0	0		Common Buckthorn	0	0	0	_
Garlic Mustard	0	0	0		Giant Reed	0	0	0			0	0	0	
Poison Hemlock	0	0	0		Cheatgrass	0	0	0		Himalayan Blackberry Tamarisk	0	0	0	
Mile-A-Minute Weed	0	0	0		Reed Canary Grass	0	0	0			0	0	이	_
Birdsfoot Trefoll	0	0	0		Common Reed	300				Other:	0	0	의	_
Canada Thistle	0	0	0		Leafy Spurge	0	0	0		Other:	0	이	이	
					- cary oparge	0	0	0		Other:	0	0	0	
	W. de		_		PLOT COORD		_			Other:	0	0	0	
Buffer Plot 3 can not be accided an accident and be accided and be	essector Transhe co	d, take ensection of Plances	e the	coording the cowere takes posset):	nates at the nearest practicable coordinates will indicate the local liken and why in the comment sible or at the center of the last a O W3 O Nearest practicable control of the last section of the last sect	location of ection acces	ion A of the belo sible	LONG trans w. Th Buffe	G THE ect. Fill e coord r Plot.	the Buffer Plot at the AA CENT TRANSECT. This is important be in the "nearest practicable local dinates of the nearest practicable and comment below)	ecaus tion" t e loca	e all	Buffe	er in i
Buffer Plot 3 can not be accidets are centered on the Buffing box, and describe where the ther placed as close to the collision of coordinates O AA CENTER O N3 Latitude No.	essector Transhe co	d, take ensection of Plances	e the	coording the cowere takes posset):	nates at the nearest practicable coordinates will indicate the local liken and why in the comment sible or at the center of the last a O W3 O Nearest practicable control of the last section of the last sect	location of ection acces	ion A of the belo sible	LON(trans w. Th Buffe	G THE ect. Fill e coord r Plot.	TRANSECT. This is important b in the "nearest practicable loca dinates of the nearest practicable	ecaus tion" t e loca	e all	Buffe e, fill an b	er in e
Buffer Plot 3 can not be accided an are centered on the Buffing box, and describe where the ther placed as close to the collision of coordinates O AA CENTER O N3 Latitude No.	essector Transhe co	d, take ensection of Plances	e the	coording the cowere takes posset):	nates at the nearest practicable coordinates will indicate the local liken and why in the comment sible or at the center of the last at O W3 O Nearest practical likes of the last selection of the la	location of ection acces	ion A of the belo sible	LON(trans w. Th Buffe	G THE ect. Fill e coord r Plot.	TRANSECT. This is important be in the "nearest practicable local dinates of the nearest practicable and comment below)	ecaus tion" t e loca	e all	Buffe e, fill an b	er in e
Buffer Plot 3 can not be accided an are centered on the Buffing box, and describe where the ther placed as close to the collision of coordinates O AA CENTER O N3 Latitude No.	essector Transhe co	d, take ensection of Plances	e the	coording the cowere takes posset):	nates at the nearest practicable coordinates will indicate the local liken and why in the comment sible or at the center of the last at O W3 O Nearest practical likes of the last selection of the la	location of ection acces	ion A of the belo sible	LON(trans w. Th Buffe	G THE ect. Fill e coord r Plot.	TRANSECT. This is important be in the "nearest practicable local dinates of the nearest practicable and comment below)	ecaus tion" t e loca	e all	Buffe e, fill an b	er in e
Buffer Plot 3 can not be accided are centered on the Buffing box, and describe where the state of the placed as close to the continuous coordinates. O AA CENTER O N3 Latitude No.	essector Transhe co	d, take ensection of Plances	e the	coording the cowere takes posset):	nates at the nearest practicable coordinates will indicate the local liken and why in the comment sible or at the center of the last at O W3 O Nearest practical likes of the last selection of the la	location of ection acces	ion A of the belo sible	LON(trans w. Th Buffe	G THE ect. Fill e coord r Plot.	TRANSECT. This is important be in the "nearest practicable local dinates of the nearest practicable and comment below)	ecaus tion" t e loca	e all	Buffe e, fill an b	er in e

										-										-			
							FOR	RM B-1:	BUFF	ER :	SAN	IPL	E Pl	_OT	S (Fi	ront)		Review	ved by (initial):		- (
													DATE	E: 0.713/120/3									
Locati									FIII	in b	ubb	le(s)	If pl			ld not be				ag -	→	1	
OAA	Center	6	N	OS OE OW OPlot 1 Plot 2 Plot 3																<u> </u>			
Fill in bubble Strata Section	es for all th on: Fill in a	hat app	oly: Ca	nopy over o	Type: I	D = D	eciduou for eaci	s; E = Evergro n strata type f	Buffer een. Leaf T or each plo	voe: B	= Bro	adleaf	: N = N	leedle	Leaf. A	bsent: No tred derate(10-40	e canopy. %); 3 = Hea	ıvy (40)-75%);	4 = V	ery He	eavy (>75%)
Buffer	Canop	v Tvp	e: 🕞) () At	sen	t: ()	Buffer	Canopy	v Tvp	e: (o) (E) Ab	sent	. 0	Buffer	Canopy	TVD:	e: 🕞	(·)	Ab	sent:	
Plot 1		f Typ	$\overline{}$	\sim	+		Flag	Plot 2		f Typ	=	$\stackrel{\sim}{\sim}$			Flag	Plot 3		Туре	- otin	$\overline{\odot}$	+		Flag
Big Trees (>			O	•	0	0		Big Trees (>0.3m DBH)	0	O)	0	0	0		Big Trees	(>0.3m DBH)	0	0	0	0	0	
imall Trees (<0.3m DBH)	Ō	Ō	<u>0</u>		0						0	Ō	Ō		Small Trees	(<0.3m DBH	0	0	0	0	O	
Noody Shrubs	s, Saplings -5m HIGH)	0	0		0	0		Woody Shrub	s, Saplings n-5m HIGH)	0	0	0	0	0			ubs, Saplings im-5m HIGH)		0	0	0	0	
Noody Shrubs		0		0	0	0		Woody Shrub		Ō	Ō	0	<u></u>	Ŏ		Woody Shru	bs, Saplings <0.5m HIGH)	0	0	0	0	0	
	orbs and Grasses	0		(0	0			Forbs and Grasses	0	Ō	0	<u></u>	Ŏ			Forbs and Grasses		Ō	0	Ō	Ō	
Bare	ground	0			Ö	0)	Bar	e ground	0	Ō	<u>3</u>	<u></u>	Ŏ		Bai	re ground	0	0	0	0	Ō	
Lit	ter, duff	0	0	0		Ō		Ł	itter, duff	0	Ō	0	<u></u>	Ō		Ł	itter, duff	0	0	0	0	Ō	
	Rock	0		0	0	Ō	- · · · -		Rock	0	Ō	0	Ō	Ō			Rock	0	0	0	0	0	
	Water	0	0	0	0	0			Water	0	0	0	0	Ŏ			Water	0	Ō	0	0	Ö	
	ubmerged egetation		Ō	0	0	0			ubmerged /egetation	0	O	0	0	Ō		,	Submerged Vegetation		0	0	0	0	
				send	e - (Confi	rm that				es pi	esen	e and	an i	unfilled	bubble indi		_	by filli	ng thi	s bub	ble.	9
Resi	idential	and	Urba	an Si	tress	ors			Hydrolo	gy S	tres	sors					Agricult	ural	& Ru	ral S	tres	sors	
Fill bubble	e If pres	ent - I	Plot	1	2	3	Flag	FIII bubbi	e If prese	ent - F	Plot	1	2	3	Flag	Fill bubble	if prese	nt - P	lot	1	2	3	Flag
Road - gra	avel			0	0	0		Ditches, C	hanneliza	ation		0	0	0		Pasture/Ha	ay			0	0	0	
Road - tw				0	0	0		Dike/Dam		R Bed		0	0	0		Range				0	0	0	
Road - for	ur lane	1000	wali	0	0	0		Water Lev		l Stru	cture	0	0	0		Row Crops				0	0	0	
Parking L	ot/Paven	nent		0	0	0		Excavation	n, Dredgir	ng		0	0	0		Fallow Fiel		REST	NG	0	0	0	
Golf Cour	se			0	0	0		Fill/Spoil E	7/2			0	0	0		Fallow Fiel SHRUBS, TRI		ASS,		0	0	0	
Lawn/Parl	k			0	0	0		Freshly Do		Sedim	ent	0	0	0		Nursery				0	0	0	
Suburban	Resider	ntial		0	0	0		Soil Loss/	Root Exp	osure		0	0	0		Dairy				0	0	이	
Urban/Mu	ltifamily			0	0	0		Wall/Ripra	ф			0	0	0		Orchard				0	0	이	
Landfill				0	0	0		Inlets, Out				0	0	0		Confined A		eding		0	\rightarrow	이	
Dumping				0	0	0	,	Point Sou (EFFLUENT	OR STORM	NATER)	0	0	0		Rural Resi	dential			0		이	
Trash				0	0	0		(SHEETFLO)		input		0	0	0		Gravel Pit				0	0	이	
Other: _		_	_	0	0	0		Other:				0	0	0		Irrigation				이	0	의	
Other:				0	0	0	Ĺ	Other:				0	0	0		Other:			\dashv	0	0	0	
Indu	strial D	evel	opm	ent S	Stres	sor	8						labit	at/V	egeta	tion Stress	sors						
FIII bubble	e if pres	ent -	Plot	1	2	3	Flag	Fill bubble	o If prese	nt - F	Plot	1	2	3	Flag	Fill bubb	le if pres	ent -	Plot	1	2	3	Flag
Oil Drilling)			0	0	0		Forest Clea	ar Cut			0	0	0		Herbicide U	Jse			0	0	0	
Gas Wells	S	4 0		0	0	0		Forest Sele	ective Cut			0	0	0		Mowing/Sh	rub Cuttin	g		0	0	0	
Mine (surf	face)			0	0	0		Tree Planta				0	0	0		Trails				0	0	0	
Mine (und	lerground	d)		0	0	0		Tree Cano (INSECT)	py Herbiv	ory	180118	0	0	0		Soil Compa (ANIMAL OR H	action (UMAN)		3,5	0	0	0	
Military			EUP 2	0	0	0		Shrub Laye		d		0	0	0		Offroad vel				0	0	0	
Other:	45000			0	0	0		Highly Gra	zed Grass HIGH)			0	0	0		Soil erosion OR OVERUSE		ND, WA	ATER,	0	0	0	
Other:			_	0	0	0		Recently B Canopy		rest		0	0	0		Other:	7.1.			0	0	0	
Other:				0	0	Recently Burned Grassland (BLACKENED)				0	0	0		Other:				0	0	0			
	lag codes	K=	No me			mad	e, U = S	uspect meas	urement.,	F1,F2	etc.	= mis	c. flag	s assi	igned b	y each field c	rew.		242	3168	304	1	
В	luffer Sa	mple	Plots	05	/27/2			lags in comm	nent section	on on	ine ba	ICK OF	unis fo	m	BULL	The same						191	

Site ID	P	A	P	No	1353	DAT	F:	0	1	Reviewed b	y (made			
								_	7,	3.1, 20.1.5				
O Confi	m a fili	ed da	ata b	ubbie I	ndicates presence and an uni	illed	bubb	ie ind	dicates	absence by filling in this bub	bie			10
Fili bubble if present - Pi	ot 1	2	3	Flag	Fili 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	
Glant 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	ŏ	
					PLOT COORE	INA	TES							
lag box, and describe when	the cente	ordin of P	nates lot 3 se or	were to	aken and why in the comment s sible or at the center of the last	acces	belo sible	w. Th Buffe	sect. Fill he coord er Plot.	TRANSECT. This is important to in the "nearest practicable local dinates of the nearest practicable local dinates of the local dinates of t	ecau: ition" le loca	se all bubbl ation	Buffe e, fill can b	in the
lag box, and describe when aither placed as close to the Location of coordina O AA CENTER O	tes (cl	oordin r of P noos	nates lot 3 se or	were to as possine):	O W3 Nearest prac	ection	beloc sible	e W	ne coon er Plot.	TRANSECT. This is important being the "nearest practicable local dinates of the nearest practicable and comment below)	ition"	bubbl	e, fill can b	in the
lag box, and describe when bither placed as close to the Location of coordina O AA CENTER O	tes (cl	oordin r of P noos	nates lot 3 se or	were to as possine):	aken and why in the comment sible or at the center of the last O W3 Nearest prac	ection	beloc sible	e W	ne coon er Plot.	in the "nearest practicable loca dinates of the nearest practicable and comment below)	ition"	bubbl	e, fill can b	in the
lag box, and describe when bither placed as close to the Location of coordina O AA CENTER O Latitude	tes (cl	oordin of P	nates lot 3	were tras possible): D E3	o W3 Nearest practile Degree	eticab	n the n belo sible	e W	n (flag	and comment below)	tion"	bubbl	e, fill can b	in the
lag box, and describe when bither placed as close to the Location of coordina O AA CENTER O Latitude	tes (cl	oordin of P	nates lot 3	were tras possible): D E3	o W3 Nearest practile Degree	eticab	n the n belo sible	e W	n (flag	in the "nearest practicable loca dinates of the nearest practicable and comment below)	tion"	bubbl	e, fill can b	in the
lag box, and describe when bither placed as close to the Location of coordina O AA CENTER O Latitude	tes (cl	oordin of P	nates lot 3	were tras possible): D E3	o W3 Nearest practile Degree	eticab	n the n belo sible	e W	n (flag	and comment below)	tion"	bubbl	e, fill can b	in the
lag box, and describe when bither placed as close to the Location of coordina O AA CENTER O Latitude	tes (cl	oordin of P	nates lot 3	were tras possible): D E3	o W3 Nearest practile Degree	eticab	n the n belo sible	e W	n (flag	and comment below)	tion"	bubbl	e, fill can b	in the
lag box, and describe when bither placed as close to the Location of coordina O AA CENTER O Latitude	tes (cl	oordin of P	nates lot 3	were tras possible): D E3	o W3 Nearest practile Degree	eticab	n the n belo sible	e W	n (flag	and comment below)	tion"	bubbl	e, fill can b	in the
lag box, and describe when bither placed as close to the Location of coordina O AA CENTER O Latitude	tes (cl	oordin of P	nates lot 3	were tras possible): D E3	o W3 Nearest practile Degree	eticab	n the n belo sible	e W	n (flag	and comment below)	tion"	bubbl	e, fill can b	in the
lag box, and describe when bither placed as close to the Location of coordina O AA CENTER O Latitude	tes (cl	oordin of P	nates lot 3	were tras possible): D E3	o W3 Nearest practile Degree	eticab	n the n belo sible	e W	n (flag	and comment below)	tion"	bubbl	e, fill can b	in the
lag box, and describe when bither placed as close to the Location of coordina O AA CENTER O Latitude	tes (cl	oordin of P	nates lot 3	were tras possible): D E3	o W3 Nearest practile Degree	eticab	n the n belo sible	e W	n (flag	and comment below)	tion"	bubbl	e, fill can b	in the
lag box, and describe when bither placed as close to the Location of coordina O AA CENTER O Latitude	tes (cl	oordin of P	nates lot 3	were tras possible): D E3	o W3 Nearest practile Degree	eticab	n the n belo sible	e W	n (flag	and comment below)	tion"	bubbl	e, fill can b	in the
lag box, and describe when bither placed as close to the Location of coordina O AA CENTER O Latitude	tes (cl	oordin of P	nates lot 3	were tras possible): D E3	o W3 Nearest practile Degree	eticab	n the n belo sible	e W	n (flag	and comment below)	tion"	bubbl	e, fill can b	in the
lag box, and describe when bither placed as close to the Location of coordina O AA CENTER O Latitude	tes (cl	oordin of P	nates lot 3	were tras possible): D E3	o W3 Nearest practile Degree	eticab	n the n belo sible	e W	n (flag	and comment below)	tion"	bubbl	e, fill can b	in the
lag box, and describe when either placed as close to the Location of coordinate O AA CENTER O Latitude	tes (cl	oordin of P	nates lot 3	were tras possible): D E3	o W3 Nearest practile Degree	eticab	n the n belo sible	e W	n (flag	and comment below)	tion"	bubbl	e, fill can b	in the
flag box, and describe when either placed as close to the Location of coordinate O AA CENTER O Latitude	tes (cl	oordin of P	nates lot 3	were tras possible): D E3	o W3 Nearest practile Degree	eticab	n the n belo sible	e W	n (flag	and comment below)	tion"	bubbl	e, fill can b	in the

						144	FOF	RM B-1:	BUFF	ER	SAN	/PLI	E PL	ОТ	S (Fr	ont)	Reviewed by (i	nitlai):		- (
Site	Site ID: PCAP NC 1353 DATE: 07/31/2013 Location: Fill in bubble(s) if plot(s) could not be sampled and flag →																				
Locati	on:								Fill	in b	ubb	le(s)	if pl					ag –	→		
O AA Center ON OS OE OW O Plot 1 O Plot 2 O Plot 3																					
	Buffer Natural Cover Strata Fill in bubbles for all that apply: Canopy Type: D = Deciduous; E = Evergreen. Leaf Type: B = Broadleaf; N = Needle Leaf. Absent: No tree canopy. Strata Section: Fill in appropriate cover class bubble for each strata type for each plot. 0 = Absent; 1 = Sparse(<10%); 2=Moderate(10-40%); 3 = Heavy (40-75%); 4 = Very Heavy (>75%)																				
Strata Section	es for all t on: Fill in	nat app approp	oly: Ca iriate c	nopy over c	lype: i lass b	ubble	for each	s; E = Evergre strata type fo	r each plo	t. 0 = /	Absen	t; 1 = S	parse(<10%); 2=Mo	derate(10-40	%); 3 = Heavy (40-75%);	4 = Ve	ıry He	avy (>	75%)
Buffer	Canop	у Тур	e: 🕝) () Ab	sent	1	Buffer	Canop	Canopy Type: 🕡			Absent: O		0	Buffer	Canopy Type: (a) (c) Absent:				
Plot 1	Lea	f Typ	e: 🚺) <u>C</u>			Flag	Plot 2	Lea	f Typ	e: 🀠) () '		Flag	Plot 3	Leaf Type: 🕙	<u> </u>	2		Flag
Big Trees (>	>0.3m DBH	0	0		0	0		Big Trees (>	0.3m DBH)	0		0	0	\Im		Big Trees	(>0.3m DBH)	(<u> </u>	
Small Trees (•	<0.3m DBH	0		0	0	0		Small Trees (<0.3m DBH) (O	0	(0 (3		Small Trees	(<0.3m DBH)		0	<u> </u>	
Woody Shrub	s, Saplings i-5m HIGH)		0		0	0		Woody Shrub	s, Saplings -5m HIGH)	0	0	0	(<u> </u>			ibs, Saplings im-5m HIGH)	0		0	
Woody Shrub		0	(4)	0	0	0		Woody Shrub	s, Saplings).5m HIGH)			0		0	,		bs, Saplings <0.5m HIGH)	0	0	⊙	
	orbs and Grasses	0	Ō	0	(0			orbs and Grasses	0	0	0	0			Herbs	Forbs and	0	0	0	
Bare	ground	+	Ō	(0	0		Bare	ground	$\overline{}$		0	0	<u> </u>		Bai	re ground ① ①		0	0	
Lit	tter, duff	1	Ō	0	0	Ō		Li	tter, duff	0	0	(0	0		L	itter, duff 💿 🕦	0		0	
	Rock	-24		0	0	0	1		Rock	1	Ō	<u>0</u>	-	Ō			Rock 🐔 🥔	0	0	0	
	Water		0	0	0	\odot			Water	-	ŏ	0	<u></u>	ŏ	-		Water 🐠 🔾	0	0	0	
	ubmerged		0	0	0)(ubmerged		0	0	<u></u>	$\overline{\odot}$			Submerged (IV)	0	0	Ō	
Strock	egetation	-	\sim	_		\sim	m that		egetation		_			\sim	unfilled	bubble indi	cates absence by filli		s bub	ble.	0
-	identia	-	THE REAL PROPERTY.		-				Hydrole	20							Agricultural & Ru				A COLUMN TO SERVICE SE
Fill bubbl				1	2	3	Flag	Fill bubbl		-	_	1	2	3	Flag	Fill bubble	e if present - Plot	1	2	3	Flag
Road - gr		TOTAL -		0	0	0		Ditches, C				0	0	0		Pasture/Ha	ay	0	o	0	
Road - tw		-		0	0	0	1	Dike/Dam	Road/RI		1	0	0	0		Range	0	न	0		
Road - fo) to est	144	0	0	0	,	Water Lev	_	ol Str	uctur	1	0	0		Row Crops	0	0	0		
Parking L		ment		0	0	0		Excavation				0	0	0		Fallow Fie	0	0	0		
Golf Cou				0	0	0		Fill/Spoll B	Banks	Lan	4	0	0	0			d (OLD - GRASS,	0	0	0	
Lawn/Par				0	ō	O		Freshly Do		Sedli	ment	0	0	0		Nursery	North and the state of	0	0	0	
Suburbar	n Reside	ntial	6,19	0	o	0		Soil Loss/		posur	е	0	0	0		Dairy		0	0	0	
Urban/Mi	ultifamily			0	0	0		Wall/Ripra	ap			0	0	0		Orchard		0	0	0	
Landfill	Wille.		91.3	0	0	0		Inlets, Ou	tlets	i del		0	0	0		Confined /	Animal Feeding	0	0	0	
Dumping				10	0	0		Point Sou			R)	0	0	0		Rural Res	idential	0	0	0	
Trash	Crevel	mä	Melan	0	0	0		(SHEETFLO)	s surface	e inpu	t	0	0	0		Gravel Pit		0	0	0	
	road		an		0	0		Other:				. 0	0	0		Irrigation	SUCHE AND	0	0	0	
Other:	WHY	DAZ	re	0	0	0		Other:				. 0	0	0		Other:		0	0	이	
Indi	ustrial	Deve	lopm	ent	Stres	ssor	s	TE AND					Habit	at/V	egeta	tion Stres	sors				
Fill bubb	le if pre	sent -	Plot	1	2	3	Flag	Fill bubble	e if pres	ent -	Plot	1	2	3	Flag	Fill bub	ble If present - Plot	1	2	3	Flag
Oil Drillin	ıg			0	0	0		Forest Clea	ar Cut			0	0	0		Herbicide	Use	0	0	0	
Gas Wel	Is			0	0	0		Forest Sele	ective Cu	ıt		0	0	0		Mowing/SI	nrub Cutting	Ó	0	0	
Mine (su	rface)	Mark.		0	0	0		Tree Plant	ation	AT A		0	0	0		Trails		0	0	0	
Mine (un	dergroui	nd)		0	0	0		Tree Cano	py Herbi	vory		0	0	0		Soil Comp (ANIMAL OR	action HUMAN)	0	0	0	
Military			X	0	0	0		Shrub Lay	er Brows	ed		0	0	0			hicle damage	0	0	0	
-				0	0	0		(WILD OR DO Highly Gra	zed Gras	sses		0	0	0			n (FROM WIND, WATER,	0	0	®	
Other:	-				+	0	-	Recently B	lumed Fo	orest		0	0	0		OR OVERUS	5)	0	0	O	
Other:			_	0	0			Canopy Recently Burned Grassland					0	0	-	Other:		C	0	0	
Other:	Class		M	0	10	0	lo 11 - 1	(BLACKENED)			O		_	laned b	_	crew.				
						Exi	olain all	flags in com	ment sect	tion or	the i	back of	this fo	orm			242	8168	5304	i i	
	Buffer S	ample	PIOT	s U	3/2//	ZULI						_		-						-	-

S11 - 10 to 1					ER SAMPLE PLOTS					Reviewed to	y (initi	ai):		•
Site ID:	1	a	41	N	C 1353	DAT	ΓE: ડ	9-	71	3.1.120.1.3.				
Confirm	a fill	ed da	ıta b	ubble l	ndicates presence and an un	filled	bubb	le In	dicates	s absence by filling in this bub	bie			
Fili bubble if present - Piot		2	3		Fill bubble if present - Plot	_	2	3	Flag		_	2	3	Fia
Eurasian Watermilfoil	0	0	0		Purple Loosestrife	0	0	0		Johnson Grass	0	0	0	1 10
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 Salvinla	0	0	0		Perennial Pepperweed	0	0	0		Common Buckthorn	0	0	0	-
Garilc 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	
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		_	\rightarrow	
-									S 22 = 1	Other:	0	0	0	
				- y	PLOT COORL		TEO			Other.	0	0	이	_
Latitude N	lorth	4		. 5	8.0.9.3	Long	gitud	le W	est C	1.8.1.4.2.8.1	<u>ء</u>			
					Use Decimal Degr	905; (NAD	83	-		_	_		
Flag Comments		W.Y.												-
1 road a	T/2 V	ام	fr	12hm	road									
2 crossed	4 .	dre		011	/path from 1	2 🔾	<u> </u>	-	۵	. ?				
			1		7 POGIN TIOM	50	`	1 0	<u> </u>		230,-			-
												99-24117		
			-											
Buffer Sample Poir		arge	ted A	Alien Sp	ecies 05/27/2011					7966	623	548		
iosa, barbem	1				30									