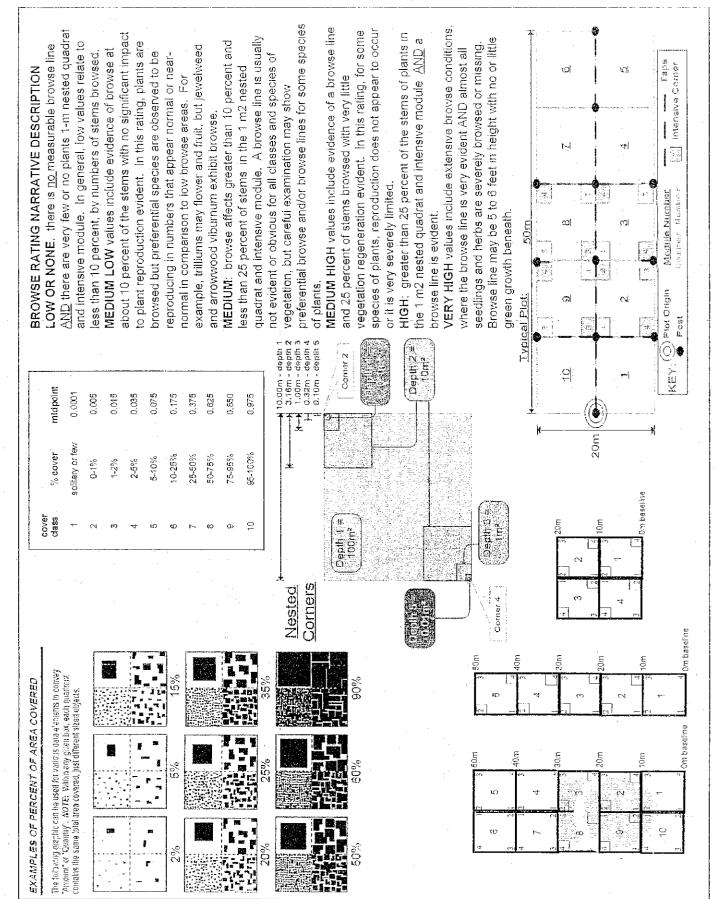
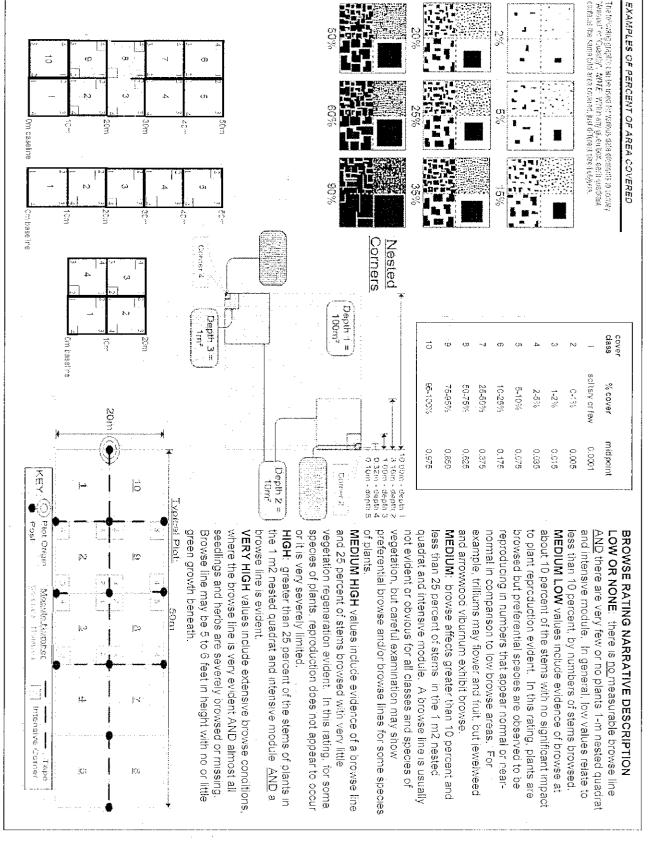
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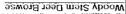
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>>	Plot no.: 1/80	Project light Project name:
Page / of	Species Cover Data Sheet	A FYEL AND METEODARKS Plant Community Assessment Program Species Cover Data Sheet





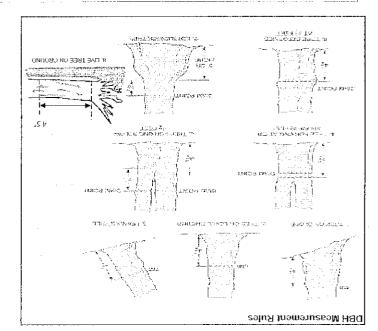
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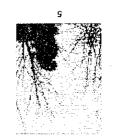


Record the number of stems/plants between 0.5–1.0 motors $tall\ that\ exhibit\ evidence\ of\ this\ years\ deer\ browse$

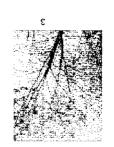
Record using the tally system from 1 to 10









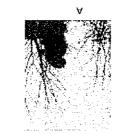






ASH CANOPY CONDITION

- 1. Healthy, full canopy: A healthy ash canopy is normally thinner than many other trees such as mapte.
- 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 thirming and some top branches exposed to sunlight are dead (have no leaves). Lower branches, not exposed to sunlight, die naturally and are not considered.
- 2. Dead canopy: No leaves remain in the canopy portion of the tree. It still counts as a 5 even if there are opiocomic sprouts below the canopy.
- (lowest branch) on the frunk.



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

D: Stem still standing and tertiary main branches present.

E: Central stem still standing.

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INTENSIVE MODULES ONLY

Plot No.: 180

Project Label: PCAP Project Name: C	CLEVELAND METROPARKS Emerald Ash Borer - Fraxinus Sheet
prioret Name: O (OFO) > ()	neet

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*** Change intensive module numbers when necessary N co ω

Map all ash trees ≥10cm in each module using Tree ID number

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CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey

			•	7 77 - 71	1330p	blait toor		Note: For Ground-cover plants record
•							Periwinkle	
			У		×		Dame's Rocket	
		vision					Common Teasel	Dipsacus fullonum
		X	X	X	X		9ltzidt ebeneO	Cirsium arvense
							(bnellaw) alistiso	epuelg.x.T., feilofitzugne erlqyT
		$\overline{}$	X.	X	X	(qnuqs)	AsoA eaoltifloM	Rosa multiflora
						(apuqs)	elossy Buckthorn	Rrangues elugaer
		X	X				Japanese Knotweed	Polygonum cuspidatum
		i					Phragmites	Phragmites australis (wetland)
		X	X	X			Reed Canarygrass	Phalaris arundinacea
						(apuqs)	Bnzh Honeysuckles	L. morrowii, L. tatarica
						(qnuqs)	Common Privet	
х: жег		X	X	X	X	<u> </u>	Garlic Mustard	
Presence		MN	MS	35	NE	eje X - e JA.		
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000'T< :S						(qnuqs)	Mock Orange	
4: 101-1,000							sapuesk Pachysandra	i
3: 21-100						(dunda)	Five-leaf Aralia	Eleutherococcus pentaphyllus
7: 11-50.							Crown Vetch	
1: 1-10							Lily of the Valley	Convallaria majalis (G-cover)
atnelq to #		WN	MS	15	NE			
	comments		stueld	110#				zi opneser9: Presence is
							Wintercreeper	Euonymus fortunei
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							Cut-leaf Teasel Autumn Olive	etalladmu zungeaci3
						(qnuqs)	European Alder Cut-leaf Teasel Autumn Olive	Berberis thunbergii Alnus giutinosa Dipsacus lacinistus Elaeagnus umbellata
						(dunds) (dunds)	Common Buckthorn Japanese Barberry European Alder Cut-leaf Teasel Autumn Olive	Rhamnus cathartica Berberis thunbergii Seziutina giutinosa Giospanus laciniatus Etalbatus umbellata
		1				(dunds) (dunds)	Poison Hemlock Common Buckthorn Japanese Barberry Cut-leaf Teasel Autumn Olive	masculatum moculatum Rhamnus cathartica Berberis thunbergii Alous givtinosa Dipsacus lacinistus Elaeaguus umbellata
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^. 000't< :\$						(dunds) (dunds)	Asian Bittersweet Hedgeparsley Poison Hemlock Japanese Barberry European Alder Cut-leaf Teasel	Celastrus orbiculatus Torilis sp. Conium maculatum Rhamnus cathartica Berberis thunbergii Alnus glutinosa Alnus glutinosa Oipsacus laciniatus
000'T< :S						(dunds) (dunds)	Bishop's Goutweed Asian Bittersweet Hedgeparsley Common Buckthorn Japanese Barberry European Alder Cut-leaf Teasel	Aegopodium podagraria (G-cover) Celastrus orbiculatus Torilis sp. Conium maculatum Rhamnus cathartica Berberis thunbergii Alnus glutinosa Alnus glutinosa Dipsacus laciniatus
000'T-10T:1/		1				(dunds) (dunds) (dunds)	Purple Loosestrife Bishop's Goutweed Asian Bittersweet Poison Hemlock Common Buckthorn Japanese Barberry European Alder Cut-leaf Teasel	Aegopodium podagraria (wetland) Aegopodium podagraria (G-cover) Colastrus orbiculatum Conium maculatum Rhamnus cathartica Berberis thunbergii Alnus glutinosa Dipsacus laciniatus Elaeagnus umbellata
000'T≤ 'S 000'T-T0T 'b .00T-TS 'E		7	2	7	-2.	(dunds) (dunds) (dunds)	Japanese Honeysuckie Purple Loosestrife Bishop's Goutweet Asian Bittersweet Poison Hemlock Common Buckthorn Japanese Barberry European Alder Cut-leaf Teasel	Lonicera japonica Lythrum salicaria Aegopodium podagraria (G-cover) Celastrus orbiculatus Conium maculatum Rhamnus cathartica Berberis thunbergii Berberis thunbergii Alnus giutinosa Dipsacus laciniatus
000'T. S 000'T-T0T-100' 00T-TS :E 0S-TT : Z		7				(dunds) (dunds) (dunds)	Tree of Heaven Japanese Honeysuckle Purple Loosestrife Asian Bittersweet Aedgeparsley Poison Hemlock Common Buckthorn Japanese Barberry European Alder Cut-leaf Teasel	Ailanthus altissima Lonicera japonica Lythrum salicaria Aegopodium podagraria Celastrus orbiculatus Conius ap. Conium maculatum Berberis thunbergii Berberis thunbergii Alnus glutinosa Alnus glutinosa Dipsacus laciniatus
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X: yes 1 01-1,000 1 1-10 1		MAN.	MS Switch	SE SE	-Z.	(dunds) (dunds) (dunds)	Japancse stiltgrass Lesser Celandine Elowering Rush Giant Hogweed Giant Hogweed Acian Blittersweet Acian Blittersweet Hedgeparsley Boison Hemlock Purple Loosestrife Hedgeparsley Boison Hemlock Common Buckthorn Hedgeparsley Acian Blittersweet Hedgeparsley Common Buckthorn Loomon Hemlock Boison Alder	Ranunculus ficaria Cynanchum louiseae (wine) Butomus umbellatus Heracleum mantegazzianum Acer platanoides Allanthus altissima Lythrum salicaria (wetland) Celastrus orbiculatus (wetland) Torilis sp. Conium maculatum Conium maculatum Conium gentrarica (vine) Berberis thunbergii Berberis thunbergii

Note: For Ground-cover plants record "stem #" but in comment field describe # of colonies and patch size (5,M, L)

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

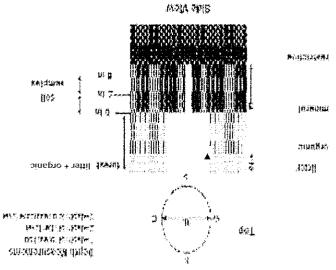
Project Label: PCAP Project Name: Q10820 Slope 1 = elight elevational grade across module (bill) Radik fir mforchablist teatura). Sclad conditional and average the socie. NOTE: If modifolis on a stope submet celly gels renked based on stephess (1-5) STRATA DESCRIPTIONS, STRATA SEE BACK OF PAGE FOR TYPICAL Aquatio)** COVER BY STRATA (3. sectionate using NOTE i wascok end hummooks are counted in BOTH nosted quadrat connata but counts are aggregated. Mano depressions = mecroticographic depressions with modulo. Thasa may extend into other modules and be ocunted egain Conture is present in moderate or greater amounts and of Highest dupling WICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only " sucinessed, most plant mass below surface reated and floating one giftly amoraed wold, = occinse woody debris modei tenung is present in moderate amounts. Such of signest duality, or in small amounts of highest quality feature is present in very substitutionals of forces dominated away and γ IN VARY BY COVER TYPE. feature is absent or functionally absent (Bolf Course Flat) 1 N در 5 ex: 3, 6, 13, 18%) Hefaht Range ζ. E Remember: in a standard 2x5 plot each module = 10% cover DIESCO'S \circ 0 depril: 3 G 0 [5] [5] 3,15x5...6iii depth 2 C Ó na. ot Ç 0 Slope 2 = 'alls on slope ~20 " EARTH SURFACE & GROUND COVER rion serios " >5 cm in diameter Graval-Cobble = 1/16 to 10 in nderlying Earth Surface" 210 012070 oulder** ineral Soil depressions m = 1658616x16:E depth 1 vel-Cobble* 00 O /0D \mathcal{Z}_{i} (2-12 eq.) c ...d 10x1.... 1, utdep ٢ Bryophyse-Erdien Ground Cover Coarse Woody Debas*** are Soil ine Weedy Debris utit (Ferm i Huraus) oad-Trail Lint for pieces with minimum in milengin Slope 3 = maximum eleganess that can be safely sampled ~45 ? (12-40cm) 10x10.5 depth I 6 14 4 0 0 l lux i Cm depth 1 C.W.C 740 CH percent 0 O 0 marenab. intenspens. depth 1 :Cv:iCm 7 NN Plot No.: 1180 Mg lengar 17 Mouse 102.010.10 0 0 0 iCx10m O SLOPE 915 Criting solutioned FILLED OUT USING GIS PROGRAM - DO NOT FILL OUT IN FIELD] McNAB INDICES (degrees) + for up - for down Type TRAIL INFORMATION: If trail falls in plot record type and cover for ... " Terrain Shape Index (she microtonographic snape Landform Index (cost..on within landscape) Grave. Bookeg unsenotioned + 35 degrees +276 degree ±225 degree ±180 degree ±45 degrees ±90 degrees Atlasted %Cover N Module do: count in corresponding space. (4 dets per grid square) CROWN COVER (DENSIONIETER): Make 4 readings per module facing N, S, E, W. Place 4 readings per module facing N, S, E, W 13 S ıώ 1 ¥, ni 6 1 6 N O ्री) ताहरस्य का ब्राह्मकात्रकात्रकारक Page: 1 of 1 bletto de licrisen. TSI is angles formed by local slepas For TSI poson stending -In this way frictishte angle frich recoviers eye to eve of LFI is a gle of P 0

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calcingsteamle, inclinated ranged to makes south ranged. Co.S. SHRUENT allocated in the calcinosity of the c

strictionics.28 days (7 A. C.
s up to 1.4 m height or as <2.5 cm DBH in	
	Very tall shrubs are sonretimes of shrub *Can also include seedlings of shrub
2 прщегде q	vdnage (anpweided)
Floating	Bujisoj
Herb, dwarf-shrub**, free (seedling***)	terb (Field)
Tree (sapling), shrub, liana, epiphyte)	յևտք (đeuerajjλ grą to ջ ա)
Tree (overstory) very tall shrubs*. liana.	ree (genetally >5 m)
CENERAL FORM	MUTARTS
	ATARTS YB REVO



CLEVELAND METROPARKS Plant Community Assessment Program - Soils, Crown Cover, Standing Biomass Data Sheet Project label: PCAP Project Name: 61062011 Plot No.: 71 영건

उत्तरकार्यकारी है। ब्राह्म के क्षांत्र के क्षांत्र के

Page: 1 of 1

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

Soil pit module # 💃 (one per entire plot) 20 cm 5 cm matrix color 1040 matrix color | OYi hydro, cond. *** texture* hydr. cond.*** texture* edox features** edox features** nottie color Nowa nottle color xid roots 6mottle xid roots 7/2 ξ'n Z U 3 U

SOIL SAMPLES Standard procedure: collect a soil sample of the top 16 cm of soil from center of each intensive module and composite the sample

> each intensive module. Required for VIBI-E score calculation. collected in 6.1m clip plots (32x32 cm) from corners 1 and 3 in STANDING BIOMASS (required for emergent wedlands):

C?=check when colfected

Module #

2

Comer

Corner

) 				Soil Col
	X.	234 Compression	2,3,8,9 composited	Soil Collection Module
		7		Horizon (A, B, C)

Coll Description/flotes:

Parent Material Web Soil Survey Information: DRAINAGE® andform type: ioil Series/Type:/ oil Series Source: Ohio Soil Survey hasrin Floori-plain A // 4V/ 4rd Silt logm-

□ Excessively dramed

Byth to restrificat

Use Web Soil Survey for #3 Restrictive layer dept

I=indundated S=saturated W=moist D=dry Notes: include evidence of earthworms

*** Circle one:

🔧 e.g. hydrogen sultide odor, gleying, etc

refer to texture classes on reverse side

(worms, castings imiddens)

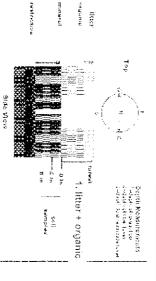
- Casting & Earthwarms found around plot

□ Moderately well dr **X**Well dramed Somewhat excessively

tors of castings throughout □ Somewhat poorly dr D Very poorly dr. □ Poorly dr Impenneable surface

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

		-	5000	•	
	i litter +	2 litter	3 restrict	Waier	depth
	organic depth	qudap	depth(cm)	depth	sat sod
mod#	(cm)	(cm)	*[WSS]	(cm)	(cm)
	૯	C	7100	O	730
7	0	ġ	7100	0	765
53	Ø	0	7100	Ø	>30
ī	Q	ο	7100	0	>30
Length of	Length of soil probe ≈ 125 cm	= 125 cm			



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

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

modifiers

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

Intermittently Flooded modifier

the U.S. where appropriate. This modifier can be applied to both wetland and non-wetland situations. Equivalent to Cowardin's

developed for use in the and West for water regimes of Playa takes, infermittent streams, and dry washes but can be used in other parts of seasonal periodicity. Inundation is not predictable to a given season and is dependent upon highly localized rain storms. This modifier was INTERMITTENTLY FLOODED: Substrate is usually exposed, but surface water can be present for variable periods without detectable

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

characterizes flood-plain upper terraces

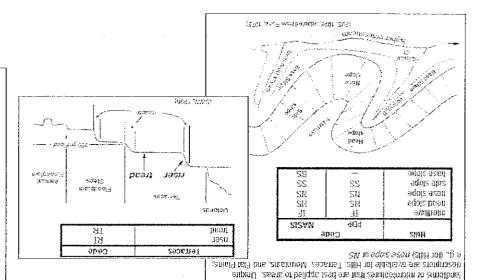
OCCASIONALLY FLOODED: Surface water can be present for brief periods during growing season , but not in mostlyears. Often

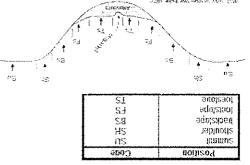
saturated to surface for extended periods during the growing season Equivalent to Cowardin's Saturated modifier PERMANENTLY/SEMIPERMANENTLY SATURATED: Dry less than once per year Sutace water is seldom present, but substrate is

to surface for extended periods during the growing season.

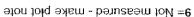
INTERMITTENTLY/SEASONALLY SATURATED. Dry at least once per year. Surface water is seidom present, but substrate is saturated UPLAND: Not a wetland. Very rarely flooded.

HADBOFOCIC RECIME Modified from Grossman et al 1998 (Freduency and duration of flooding.)





ASS. This is best applied to transects or points, not areas. abong a transect that runs up and down the stope; e.g., beckskepe or dimensional descriptors of parts of fine segments () e., slope position) - ART - (909 of poinces equivilly) nobized elitory - equivilit



- 4= Coarse Sand
 - 3= Sandy
 - 2= Clayey
 - 1= Loamy
 - sinspro = 0

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

PERCENT MOTTLES (USE CLASS CODES):

Comorphic Component - Three-dimensional descriptors of parts of

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77.	ID: ॡ	5 X */	<u> </u>	17	00	·				`L	la (a)	:= -			ld pet be	<i>[⊘_9_[</i> sampled an	<u> </u>	·		
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								s; E = Evergro	en Leaf Typo	: B = Bre	oadleat	; N = 1	veedle	e Leaf. A	Absent: No tree oderate(10-40%	canopy. %); 3 = Heavy (40-	75%); 4 = \	/ery Fta	ваму (з	>75%)
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Lawn/Park	6			O	0	0	:	Freshly De	posited Ser	liment	0	0	0		Nursery		0	0	O	
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Urban/Mu	ltifamily			Ο	O	O		Wall/Ripra	P		0	О	0		Orchard		0	0	0	
Landfill				O	0	О		Inlets, Out	and the second of the		О	0	0		Confined A	nimal Feeding	0	0	О	
Dumping				0	0	0		Point Sour (EFFLUENT C	RSTORMWAD	LR)	0	О	О		Rural Resid	lential	0	Ο	О	
Trash			Selfa. Oktobe	0	О	0		Impervious (SHEETELOV	surface inp ()	ut	0	0	0		Gravel Pit		О	0	Ο	
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Other			r 1,70)	0	O	О		Other:			0	0	0		Other:			0	0	
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Fill bubble	o if prese	nt - F	lot	3	2	3	Flag	Fill bubble	if present -	Plot	1	2	3	Flag	Fill bubb	le if present - F	Plot 1	2	3	Flag
Oil Drilling				0	0	0		Forest Clea	r Cut		0	0	0	J	Herbicide U	se:	0	0	0	
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Mine (surf	ace)			0	Ō	O	2	Tree Planta			0	0	0		Trails		О	0	0	
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				0				(INSECT) Shrub Laye	Browsed		0	0			(ANIMAL OR H	icle damage	0		0	
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Other:			<u>- 344</u>	0	0	O		(OVERALL <3"		10.000	0	0	0		OR.OVERUSE)		U	Q	0	
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Ві	uffer San	ıple f	lots	05,	/27/2									<u> </u>			<u> </u>			

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Yellow Floating Hear	Ο	0	О		Japanese Knotweed	0	0	0		Mulfiflora Rose	0	0	•	
Diant Salvinia	О	0	0	<u> </u>	Perennial Pepperweed	0	0	0	-	Common Buckthorn	0	0	0	
Sariic Mustard	•	О	0		Giant Reed	0	0	0		Himalayan Blackberry	0	0	0	ļ
Poisan Hemlock	_ O	О	0	<u></u>	Cheatgrass	0	О	0		Tamarisk	0	0	0	<u> </u>
Ville-A-Minute Weed	0	О	О		Reed Canary Grass	О	0	0		Ofher:	0	0	0	.:
3irdsfoot frefoil	0	О	0		Common Reed	0	0	0		Other	0	0	0	
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Site	D. <u>+C</u>	pp	OL.	<u> </u>	<u>P8</u>	<u> </u>											1091			ļ 	
Location	수십시 다									1.5							sampled an	d flag -			
Ø AA C	enter	<u>C</u>) N	. O	S			W	OP				lot:		O P	lot 3			- 1		
Fill in bubble Strata Sectio	es for all th on: Filt in a	at app	oly: Ca oriate d	anopy i	Typa: class f	[) = 1. oubblo	eciduou e for eac	s, F = Fivergro	Buffer en Leaf T a each plo	ура: Е	s - Bro	oadleaf	N - N	veedle	Eleaf, A	bsent; No treaderate(10-40)	: canopy, %); 3 = Heavy (40-	75%); 4 - \	/ery Fl	cavy (: 75%)
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Woody Shrubs			∤. <u> </u>	ļ <u>—</u>		$\overline{\odot}$	<u> </u>	Woody Shrub		_	_		\tilde{A}	$\overline{}$		Weody Shri	ios, Saptings				
	5m HIGH)	(<u>)</u>	(<u>)</u>		()	-		(0.5m Woody Shrub	-5m HIGH) s. Saplings	0	0			(<u>)</u>		(0.5 Wendy Shru	bs Sanlings	= = =	0	0	
(<0.	5m HIGH) orbs and	<u>()</u>	<u>@</u>	\bigcirc	(<u>)</u>	0		{ <f.< td=""><td>orbs and</td><td>0</td><td></td><td></td><td>읡</td><td>\odot</td><td></td><td>(-</td><td>Stubm HIGH)</td><td>\bigcirc</td><td>\mathcal{C}</td><td>0</td><td></td></f.<>	orbs and	0			읡	\odot		(-	Stubm HIGH)	\bigcirc	\mathcal{C}	0	
	Grasses	0	0	<u> </u>	0	0	 -\	71037	Grasses	(1)	0	\bigcirc	\bigcirc	\odot			Grasses 9	00	$\overline{\mathbb{C}}$	0	
Bare	ground	(b)	\bigcirc	(3)	(1)	0		Baro	ground	(0)			9	\bigcirc	ļ	Bar	e ground ()		9	\bigcirc	
1. itt	ter. duff	0	(2)	$ \bigcirc $	()	0		Li	ffer, duff	(b)	0		\bigcirc	\odot		L	itter. duff		(<u>)</u>	\bigcirc	
	Rock	0	0	0	(3)	0			Rock	0	0	$ \odot $	\bigcirc	<u>(1)</u>			Rock 💿	0 0	()	\odot	
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	ibmerged egetation	(0	0	0	0			ubmerged leaetation	0	0	0	0	0			Submerged Vegetation	O[0]	(3)	0	
		enc	e/Ab	seno	e - (Confi	irm that	Submerged ○ ○ ○ ○ ○ ○ ○ ○ ○					unfilled	Bubble indi	cates absence b	y filling th	is bul	ble.	Ø		
Resid	dential	and	Urb	an S	tress	ors			Hydrolo	gy S	tres	sors					Agricultural 8	Rural S	tres	sors	
Fill bubble	if prese	nt -	Piot	1	2	3	Flag	Fill bubble		5 5 5 5		1	2	3	Flag	Fill bubble	if present - Pl	ot 1	2	3	Flag
Road - gra				O	0	О		Ditches, C	hanneliz	ation		О	0	0		Pasture/Ha) V	0	0	0	
Road two	1.00	- 14 - 15 - 1 - 14 - 15 - 1	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ö	O	O		Dike/Dam/	Road/Rk		929 - 2412 1 2 7 3	O	O	0		Range		0	O	O	
Road fou	ir lane		<u></u>	0	Ö	0		dMHEDE REC Water Lev		i Stru	icture		0	O		Row Crops		O	O	O	
Parking Lo	- 0,	ent		o	0	0		Excavation	i. Dredai	na		O	Õ	Ö			d (RECENT-RESTIN		ō	Ō	
Golf Cours	eg joge faktioner. Die Australia			0	0	0	:	Fill/Spoil B				Ō	Ö	Ō			d (OLD-GRASS,	Ō	Ö	Ō	
Lawn/Park				Ō	0	0		Freshly Do	posited 9	Sedin	nent	Ŏ	Ö	O		SHRUBS, TRI Nersery	1.5)	O	0	0	
Suburban		tial			0	0		Soil Loss/F		osure		0	0	Ö		Dairy		\sim	0	<u> </u>	
Urban/Mul	* ** ***	######################################		0	0	0		Wall/Ripra	Barlei H. MA			0	0	Ö		Orchard		O	0	0	
Landfill				0	0	0		Inlets, Out				0	0	0		Confined A	mimal Feeding	O	0	0	
Dumping			<u> </u>	o	0	0	<u> </u>	Point Sour	ce/Pipe			0	0	0		Rural Resi			0	0	
Trash				Ö	0	0		Impervious	surface	mpul		0	0	O		Gravet Pit		0	0	O	
Other:	<u> </u>	12 1	angelije i Nasila kan	0	0	0		(SHEETTLOV Other:	<u> </u>	of a live	Entertaine	0	0	0		Irrigation		Ö	0	0	-
Other:	135, 750, 74, 74	· · · · · ·	27.77	0	0	0			33 m 32 W			0	0	0		Other:		0	0	0	
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Oil Drilling	روان در این در این در این در ای	ا د کور پیشم		0	0	0	! !	Forest Clea	r-Cut	<u> </u>		0	0	0		Herbicide L	lse	0	0	0	
Gas Wells				0	0	0		Forest Sele	ctive Cut	bi <u>l</u> ,		0	0	0		Mowing/Sh	rub Cutting	0	Ò	О	
Mine (súrfi	acc)			0	0	0		Tree Planta	fiori			О	Ó	0		Trails		0	O	0	
Mine (unde	erground)		0	0	0		Trée Canop (MSFCZ)	y Herbiy	ory.		0	0	0		Soil Compa JANIMAL OR [0	0	О	
Military				0	O	0	:	Shrub Laye (WILD OR DON	r Erowse	d	- 2000 000	3	0	0	1	aataa ka ta	iicle damage	O	О	0	
Olher:		ritiv .		O	0	0		Highly Graz	ed Grass	SES:		0	Ö	O		Soil erosiai	(FROM WIND) WAT	FFR (0	0	
Other:		r / time						roverall -3" Recently Bu	umed For	rest	المنسف	0		0		OR OVERUSE Other:			0	0	
ルノリオ場社で			100	\cup	(O	O:	1	Canopy	Action Control		a 40.00				Į.						1

Recently Burned Grassland (BLACKLINED) 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

Canopy

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Other.

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FC	RM	B-1	i: E	3UFF	ER SAMPLE PLOTS -	TAF	₹GE	TEL) ALI	EN SPECIES (Back) Reviewed by	y (initia	l):	<u> </u>	
Site ID:	PCE	4P	<u>O</u> É	. 118	<u>Y</u> 5	DAT	E: _C	<u>ع</u> د	<u> </u>	0,912911				
⊚ Confirm	a fille	ed da	ıta bı	ubbie n	ndicates presence and an unf	illed l	ddud	le inc	ficates	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	О		Purple Loosestrife	0	0	О		Johnson Grass	0	0	0	
Water hyacinth	0	0	О		Knotweed	0	0	0		Kudzu	0	0	0	
Yellow Floating Heart	О	О	О		Japanese Knotweed	O	0	0		Multiflora Bose	0	0	О	
Giant Salvinia	0	О	0		Perchnial Pepperweed	0	О	0		Common Buckthorn	0	0	O	
Gariic Mustard	(2)	Ö	Ο		Giant Reed	0	О	0		Himalayan Blackberry	0	0	O	
Pojšort Hemlock	О	О	0		Cheatgrass	0	О	o		Tamarisk	0	0	0	
Milig-A-Miniate Weed	О	О	0	1	Reed Canary Grass	0	О	Ō		Other	О	0	О	
Birdsfoot Trefoit	О	О	0		Common Reed.	0	O	O		Other	0	0	0	
Canada Thistle	O	Ó	O		Leafy Spurge	O	0	0	1	Others	0	0	0	
	474									Offier	0	0	0	
					PLOT COOR	DIN/	\TES	,						
Plots are centered on the Eu flag box, and describe where either placed as close to the	fier T the d cents	ranse coordi er of F	ects in ate.	and the s were las pos	coordinates will indicate the loc	ation section	of the	e fran low. I	sect. F The coc	TRANSECT. This is important ill in the "risarest practicable loc indinates of the nearest practical	ation	bubt	ble, fi r can	ill in the
Location of coordinat AA CENTER ON	salahi k	a. 259	Police	ne): ○ E3	O W3 O Nearest pra	ictica	ble (c	ocano	on (fla	g and comment below)				
Latifude Flag Comments		h. 6	/ / / / / / / / / / / / / / / / / / /		7 マ タ タ 男 Use Decimal Deg	the section of the section	27		Vest	81 6681	-/			
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										. No. 1 de 1 d				
					Species : 05/27/2011					796	662	354	8 -	

	اً و ۱	RW B-1: BUFFER SAM	IPLE	- PI	OTS (Front) Reviewed by	· (initial)):		
Site ID: PCAP OE 118						E:08/09/2				337
Location:	<u>) </u>	Fill in bubbl	e(s)	if pl		puld not be sampled and t			<u> </u>	
	OE O		OP			Plot 3	3			
	<u></u>	Buffer Natural C					 -		I	
Fill in bubbles for all that apply: Canopy Type: Strata Section: Fill in appropriate cover class); 4 = \	ery H	сауу (>	75%)
Buffer Canopy Type: (A	bsent:	Buffer Canopy Type:	(1)	Ab	sent:	Buffer Canopy Type:	(t)	Ab	sent:	
Plot 1 Leaf Type: 🙆 🕒	Flag	Plot 2 Leaf Type: 🚳	0	İ	Flag	Plot 3) Ö)	i	∵ . Flag
Big Trees (: 0 3m DBH)	0	Big Trees (-0 3m DBH)	\bigcirc	\bigcirc	3	Big Trees (>0.3m DBH)	(9)	(3)	<u> </u>	
Small Trees (<0 3m D8H) 🚳 🕕 🔘		Small Trees (<0.3m DBII)	\odot		3	Small Trees (<0.3m DBH)	0	(3)	0	
Woorly Shrubs, Saplings (0.5m-5m HIGH)		Woody Shruhs, Saplings (0.5m-5m HIGH)	O(3	0	Woody Shrubs, Saplings (0.5m-5m HIGH)		0	0	
Woody Shrubs, Saplings (<0.5m HIGH)	0	Woody Shrubs, Saplings (<0.5m HIGH)	0	3	0	Whody Shrubs, Saplings (<0.5m HIGH)		0	0	
Herbs, Forbs and Grasses O O O	0	Herbs Forbs and Grasses 0 0	0	3)	®	Flerbs Forbs and Grasses	0	0	(29)	
Bare ground 🔊 💿 💿	0	Bare ground 🚳 🕦 (\odot	\odot	①	Bare ground 🕡 🚳	0	0	0	
Litter, duff 🔊 💿 🖸	0	Litter, duff 🐼 🕦 (0		9	Litter. duff 🚳 🕦	0	0	0	
Rock 🚳 🛈 🖸	0	Rock 🚳 🕕 (O O		O	Rock 🔞 🛈	0	0	0	
Water 🚱 🛈 🕥	0		0		0	Water 🚱 🕦	0	(3)	0	
Submerged M O O	0	Submerged Wegetation	$\odot ($		O	Submerged Vegetation O	(2)	(3)	()	
Stressor Presence/Absence -	Confirm that	a filled data bubble indicates pre	esence	e and	l an unfille		ing Ih	s buk	ble. 🤅	3 0
Residential and Urban Stress	sors	Hydrology Stress	ors	18.5		Agricultural & Ri	ıral S	tres	sors	
Fill bubble if present - Plot 1 2	3 Flag	Fill bubble if present - Plot	1	3 Fla	g Fill bubble if present - Plot	1	2	3	Flag	
Road gravel O O	O	Dirches, Channelization	0	0	0	Pasture/Hay	0	0	Ο	
Road - iwo fane OO	0	Dike/Dam/Road/RR Bed (MPEDER OW)	0	\circ	0	Range	0	0	0	
Road four lane OO	O	Water Level Control Structure	0	0	0	Row Crops	O	0	0	
Parking Lov/Pavement O O	O	Excavation, Dredging	O	0	O	Fallow Field (RECEN) RESTING ROWCEOPFISID) Fallow Field (OLD GRASS	0	0	0	
Golf-Course O O	9	Fill/Spoil Banks Freshly Deposited Sediment	0	0	0	SHRURS, TRIES)	0	0	0	
Lawn/Park O O Suburban Residential O O	0	(UNIVEGETATED). Soil Loss/Root Exposure		0	0	Nursery Dairy	0	0	0	
Suburban Residential () () () () () () () ()	0	Wall/Riprap	0	0	0	Orchard	0	0	0	
Landfill O O	0	Inlets, Outlets	11773-1111	0	0	Confined Animal Feeding	O	0	0	
Dumping O O	0	Point Source/Pipe		0	0	Rural Residential	O	0		
Trash O O	0	(FFFLUENT OR STORMWATER) Impervious surface input (SIJEET LOW)		0	Ö	Gravel Pil	0	Ö	0	
Other: O O	Ö	Other		Ö	Ŏ	Ingation	O	0	Ö	
Other. O O	0	Other.	0	0	0	Other,	Ο	0	0	
Industrial Development Stres	sors		H	abit	at/Veget	ation Stressors				
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Gas Wells O O	0	all actions to the control of the co	0	0	0	Mowing/Shrub Cutting	О	0	0	
Mine (surface)	О	Tree Plantation	0	0	0	Trails	Ο	0	0	20.00
Mine (underground)	0	Troo Canony Harbinan			0	Soil Compaction (ANIMAL OR HUMAN)	0	Ō	O	
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Other O O	o	Opinion Comment of Spinion		0	Ö	SOIL CLOSION (FROM WIND, WATER,	0	0	0	
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Recently Burned Grassland O O Other:

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

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

Buffer Sample Plots: 05/27/2011



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ater hyacinth	O	0	0		Knotweed	O	Ö	0		Kudzü	0	O	0	•
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					Buffer Natural s; E > Evergreen Leaf Type: B = Br h strata type for each plot. 0 = Abse	roadlea	f; N = 1	Needle Leaf	Absent: No tree canopy loderate(10-40%); 3 = Fleavy (40-75%	6); 4 = 1	Very H	leavy (>75%)
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Big Trees (: 0.3m DBH) 🙀 🕟	(1)	0	0		Big Trees (: 0 3m DBH)	0	0	0	Big frees (=0 3m DBH)	0	0	0	
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Woody Shrubs, Saplings (0.5m-5m HIGH)	(1)	0	0		Woody Shrubs, Saplings (0.5m-5m HIGH)	(3)	(1)	0	Woody Shrubs, Sapfings (0.5m-5m HIGH)	0	0	0	
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Rock 🔘 🛈	(3)	0	0		Rock 🚳 🖸	0	0	0	Rock 🕡 🕦	0	0	0	
Water 👩 🕦	(3)	(3)	0		Water 🚳 🕦	0	0	0	Water (a)		(1)	0	
Submerged W	0	0	0		Submerged Vegetation	(3)	0	0	Submerged Vegetation	10	0	0	
Stressor Presence/Ab	sen	c - (Confir	m that	a filled data bubble indicates p	resen	cc an	d an unfilled	I bubble indicates absence by fi	lling th	is bul	oble. (o
Residential and Urb	an S	tress	ors		Hydrology Stres	sors			Agricultural & R	ural S	Stres	sors	
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Road - gravel	O	О	0	y 2011 - 21 SI	Ditches, Channelization	0	0	0	Pasture/Hay	0	О	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	О	0		Water Level Confrol Structure	· O	0	0	Row Crops	0	O	0	
Parking Lof/Pavement	Ó	0	О		Excavation, Dredging	0	0	0	Fallow Field (RECENT-RESTING)	0	0	O	
Galf Course	0	0	0		Fill/Spoil Banks	0	0	0	Fallow Field (OLD GRASS)	0	0	Ο	
Lawn/Park	0	0	0		Freshly Deposited Sediment (UNVEGETATED)	0	0	0	Nursery	0	0	О	
Suburban Residential	0	О	О	,	Soil Loss/Root Exposure	0	0	0	Dairy	Ο	О	Ο	
Urban/Multifamily	0	0	0		Wall/Riprap	0	0	0	Orchard	О	Ο	О	
Landfill	O	O	O		Inlets, Outlets Point Source/Pipe	0	0	0	Confined Animal Feeding	0	0	0	
Dumping	0	0	0		(EFFLUENT OR STORMWATER) Impervious surface input	0	0	0	Rûral Residential Gravel Pil	0	0	0	
Trash Other	0	0	0		(SHEETELOW).	0		0	Irrigation	0	0	0	
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Gas Wells	<u>O</u> .	0	0		Forest Selective Cut	0	0	0	Mowing/Shrub Cutting	0	®	О	
Mine (surface)	О	0	0		Tree Plantation	0	0	0	Trails	Ο	(3)	Ο	
Mine (underground)	0	0	0	a son the d	Tree Canopy Herbivory (INSECT)	0	Ο	0	Soil Compaction (ANIMAL OF HUMAN)	О	Ο	Ο	لسد دريسانده
Military	0	0	0		Shrub Layer Browsed (WILD OR DOMESTIC)	0	0	О	Offroad vehicle damage	Ο	О	0	
Other:	О	0	О		Highly Grazed Grasses- (OVERALL <5" HIGH)	0	0	0	Soil crosion (From WIND WATER) OR OVERUSE)	0	О	0	
Other	0	\cap	\circ		Recently Burned Forest	\cap		\cap	Other	\cap		\circ	

Recently Burned Grassland (BLACKENED) 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

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Eurasian Watermilfoil	0	0	О		Purple Loosestrife	0	O	0	Johnson Grass	0	0	0	
Water-hyacinth	0	0	0		Knotweed	0	0	0	Kudzu	0	0	0	Secretaria
Yellow Floating Heart	0	Ο	0		Japanese Knotweed	O	0	0	Multiflora Rose	0	0	0	
Giant Salvinia	О	Ο	0		Perennial Repperweed	0	0	0	Common Buckfborn	О	0	0	
Gartic Mustard	О	0	0		Giant Reed.	0	0	0	Himalayan Blackberry	О	0	0	
Poisen Hemlock	О	О	0		Cheatgrass	0	0	0	Tamansk	0	0	0	
Mile A-Minute Weed	Ο	O	0		Reed Canary Grass	О	0	0	Other:	0	0	О	
Birdsfeet Trefoil	0	0	Ο		Common Reed	О	0	0	Other:	О	0	О	
Canada Thistle	О	О	0		Leafy Spurge	О	0	0	Other:	0	0	0	0.00
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F.C.	RW	B-1	1: E	₃UFF	ER SAMPLE PLOTS -	TAF	GE	TEC) ALI	EN SPECIES (Back) Reviewed by	/ (initial	(); <u> </u>	<u></u> .	
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© Confirm	a fille	ed da	ıta bı	ubble i	ndicates presence and an unf	illed l	oubbl	e ind	dicates	absence by filling in this bub	ble			
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Eurasian Watermilloil	0	0	0		Purple Loosestrite	0	0	0		Johnson Grass	0	0	0	j.
Water hyacinth	0	0	0		Knotweed	0	0	0		Kudzu	0	0	0	
Yellow Floating Heart	О	О	0		Japanese Knolwood	0	O	0		Multiflora Rose	O	0	О	<u></u>
Giant Salvinia	О	О	O		Pereunial Poppoweed	О	0	0		Common Bucklhorn	0	0	0	<u> </u>
Gartic Mustard	О	О	0		Giant Reed	0	Ö	0		Himatayan Blackberry	0	0	0	:
Poison Hemlock	0	О	0		Cheaigrass	О	0	0		Tamarisk	0	0	О	
Mila A Minute Weed	0	О	0		Reed Canary Grass	О	O	O		Other	0	0	О	
Birdsfoot Trefoil	О	0	О		Common Reed	0	0	0		Olien,	0	0	0	
Canada Thistle	О	О	О		Leafy Spurge	0	0	О		Other:	0	0	О	
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						ru er				or the Buffer Plot at the AA CEN		i de l		
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Buffer Sample F	oints	- Tar	gete	d Alien	Species 05/27/2011						,002 	. J J 4		

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet	ssessment Prograi	n - Background Data	Sheet		(\$) Cleveland Metropurks	uktudontas)
Project Label:	PCAP	Project Name:		Plot No.:		Page 2 of 2
CLASSIFICATION		STAND SIZE	DISTURBANCES			
(F:T = excellent, good, fair, poor, CONF = high, med, low) Fit	it and Confidence	c >1,000 x plot size	type* severity** yrs ago		% of plot description	
Hvdrogeomorphic class (WETLANDS ONLY):		= > 100 x piot size	Human			
DEPRESSION FI	FireConf=	= 10-100 x plot size	Natural			
IMPOUNDMENT = Beaver = Human Fi	FirCont=	= 3-10 x plot size	Fire			
□ RIVERINE = Headwater = Mainstem = Channel Fi	Fir Conf	= 1-3 x plot size	Cut			
SLOPE (ground water hydrology or on a physical slope)	FirConf=	azıs sıze ⊐ < plot sıze	Anımai			
	FirConf=	DRAINAGE*	Other			
= COASTAL (specify subclass)	FireConf=	□ Excessively aramed	**L=low, ML=ned low, M=med, MH=ned high, H=high. VH=very high	d, MH=med	high, H=high. VH=very high	
E BOG (strongly, moderately, weekly embrotrophic)	Fit- Conf-	☐ Somewhat excessively	Current Land Use:	:		
Ohio EPA VIBI Plant Community Class (WETLANDS ONLY):	(Y):	□ Well dramed	Former Land Use:			
☐ FOREST = swamp forest = bog forest = forest seep	Fir Conf-	□ Moderately well ar.	HYDROLOGIC REGIME*	Œ*		
	Fit=Conf=	⊐ Somewhat poorly dr.	□ Upland (seidom flooded)		🛭 Intermittently flooded	
E SHRUB = shrub swamp = tall sh. bog = tall sh. fen Fi	Fir Conf-	n Very poorly dr.	c Intermittently/seasonally saturated	rated	□ Semipermanently flooded	
MODIFIED NATURESERVE CLASS*		- □ Impermeable surface	(seldom fiooded)		□ Permanently flooded	
CODE (on separate form):	FiteConf=	SALINITY*	- Permanently/Semipermanent, saturated	saturated	E Tidal/Serone flooded daily	
CONDICINITY NAME:		□ Saltwater	(طعر <۱/yr. seldom flooded)		☐ Tidal/Seiche flooded monthly	hly
		□ Brackish	⊂ Occasionally flooded (<1/vr)		⊏ Tidal/Seiche flooded irregular	ıíar
LANDFORM TYPE*:		c Fresh	 Temporarily flooded 		(e.g. wind. storms)	
		⊂ Upland (n/a)			⊏ Unknown	
HOMOGENEITY	saditional notes & diag	rams: (Representativeness	Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.)	status, matu	nty, etc.)	
E Homogeneous						
□ Compositional trend across the plot						
c Conspicuous inclusions						
= Irregular/pattern mosaic						

7	/	
		: