Project Label:	PCAP PCAP	Plot N	o: <u>1544</u>	Date Sampled: 7-10	-13 Lead: Long
				Comment required if its	1.7
Parking/Access out	side of Park Boundaries:	Y (N)	If yes write	details in Comments se	
Field journals comp	pleted	Y N	July Wille	demis in Comments se	cuon below
Site sketch made or	1:3000 map?	Y N			
Check cover page	X-axis Bearing of plot recorded	(X) N			
	GPS coords. Recorded	YN			
	North direction recorded	Y N			
	Photographs taken?	Y N			
Plot No., Date agree	ment on all pages?	Y N			
leader data comple	ted all pages?	YN	T		
Cover classes record	led in all Intensive modules	YN	†		
Browse Level By Sp		YN	 		
Woody stem quality	control check	YN			
nvasive plant qualit		YN	MEANING	SOC ALAT CLA	a DI ETT
Ash trees mapped		YN	Alo Acu	IN INTENS	ILEC IED
Cover by Strata? (co	nfirm cover type)	YN	NO ASA	IN INTENS	ves
	d with matching plot #.	YN	 		
	datasheet with initials and number	YN			
ouchers labeled on		YN			
ink flags removed		Y N			
ata sheet QA before	leaving site?	YN			
ommon equipment		YN			
ata sheets scanned?		07/12/13	Enter date to I	. A.S	
inal data sheets scan	ned?	10 17 12/15			
uffer Widths measu		(A) N	Enter date to !	4 - 4	
leb Soil Survey		Y) N	BB 2	1/28/13	
oucher Location	Refrigerator	N N	PB 7	112/15	
vouchers collected)	Press (#)	N I	F		
	Drier	V N	Enter number	to left	
1000 0 74,	Identified	YN			
ACL 074, 675,076	Mounted	YN			
•	Thrown away	YN			
		YN			
RTS naint varificat	ion: Is plot sampleable?				
Yes					
	Original GRTS point is sampleable				
□ No	Original GRTS point lands in a non-sa	ampleable area (fill	in category be	low)	
	The state of the s				
	☐ Managed mowed area (i.e. golf co ☐ Paved area (i.e. parkinglot, road)	ourse, picnic area, right-	of-way)		
	Unsafe to sample (i.e. steep slope)				
	□ Other				
litional Comments					

*

VS Field Guide OVER	*Definitions and values in CM PCAP FOM v. 1.0 and CVS Field Guide	Alnimum required fields in Bold and Underlined
module by nowever, it exhibited a great		uthority: G&C Pub Date: 1998
omiliax rotunditolia was very abundant in	ed Random Transect component	FAXONOMIC STANDARD
The resolutions layer is sparse.	nent: d'GRTS Representative	ichen
Dresent The hard and the second	Photo Nos.: 453	муо
sassafras, and white make are also	_	ascul. Y n/a
dominate tree in the canopy. Ked oak,	Intensive modules: 2, 3, 8, 9 (EDIT IF MODIFIED)	high modera low not smpl
located atop a ruge. The maple is the		TAXONOMIC ACCURACY
	X-axis Bearing of plot: [66] °	- Hurried Ldata
Vonotation Characteristics This old is	Plot size for cover data: • (hectares)	Accurate may still provide good
Kortionalle - GKIS point	349A	Very thorough how much effort put into
	Coord. Accuracy: m m ft 5,7 +-	Effort Level: subjective evaluation of
a long hike out to the plot.	Longitude: SI . 59264	SAMPLING QUALITY*
Two streams. Come prepared to have	Latitude: 41, 3964	□ Perm. water □ Paved □ Slope □ Safety
	x = C $y = C$ (base of plot x=0, y=0)	PLOT NOT SAMPLED: DOther
plot is over several hills and across	GPS location in plot $x=0$ to 5, $y=-1,0,+1$):	** Roles: Co-leader, Asst., Guide, Owner, Taxonomist, etc.
the Location - Park on tarkside Dr. The	AD83/WGS84 🛮 NAD27	. 0
, 9	□ Other (specify) ■ m □ ft □	H. Schrautnagel Words (rew
	■ Lat/Long □ UTM □ StatePlane ■ deg □ deg min	man magnification
dominants, strata, BROWSE). Additional notes in space on back.	Coordinate system: Coord. Units	3
unusual shape details), Location (directions	Source of coordinates □ MAP ■ GPS	H. Lance Plot leader
Key: O(0,0) point Opsilocation opening with direction permanent posts	If data not public why?	Party Role**
1	Reason:	End date (if > 1 day): / /
#1 #2 #3 #4 #5	□ Fuzz 100m □ Fuzz 250m □ Fuzz 500m	Date (mm/dd/yyyy):01 /10 / 2013
1 2 1 2	Check one: Public data Private Data	Level 5 (nested corners sampled)
2	Data Confidentiality:	□ Level 4 (no nested corners sampled)
#8	Landowner: CMP	Piot No.: 1549
Y 3 4 3	Parkuiew Rd.	Misty Mountain
(Quadrangle:	Plot Name: (1) Br 2012
	State: OH County: Cungh 650	
Page 1 of 2	LOCATION	GENERAL INFORMATION
	CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet	CLEVELAND METROPARKS Plant C

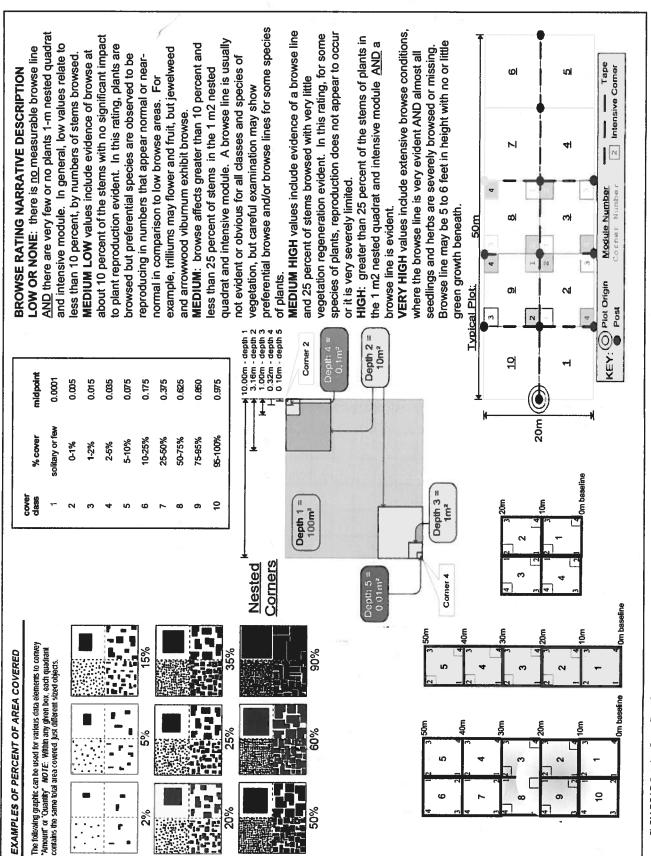
o Fresh

2aCM PCAP Species Cover Data sheet Page 1 of x_ver 3.xls last revised 5/29/2012 ceh Strata - Cov. entire plot CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet 2a Cleveland Matroparks Total modules: Project Label: S | H |(F)|(A)|Br 9 Fagus O 8 Crataggous Sp. Quercus Smilax sp. Prunius seration Quercus sp. seedling Swercus rubra Populus grandickentata Hunkman manacat #+ Heer sp. hicadendron tulipitera Meer Fubrum raxinus sp. lexicodendian realizans Intendum dicat #3 describe amount of browse per species over C * + PRIDURAL VINIONAL nknown grass #+ Br = Browse Level. Use cover classes to Justichum acrostichoide itchella renens ax ratuad tolica arand italia 0 Species seedlina entire plot Scedling ဂ %unveg. ground (bare soil) Intensive modules: %unvegetated open water Estimate for each intensive module: B %unveg. litter (bare litter) 9-15 コーカ 24-15年 Project name: O Br 2013 Voucher # 770 %open water رو Ċ نو 9 8 9 cov depth cov depth カーと ಬಾಬಾಬ mod Plot configuration: COV ş S) S 9 O cov | depth Plot no.: 1349 دو 8 mod comer ş ş છ دو mod depth QJ δ. دع ov depth cov | depth 4 O mod Plot area (ha): ____ ş 8 Page ___ of 2 27/2 5 Ov depth 8 cov depth 0 03 6 DOG. S 0 ş ş depth 3 Ş 8

Natural Resource Management FORM NR/2010-02a

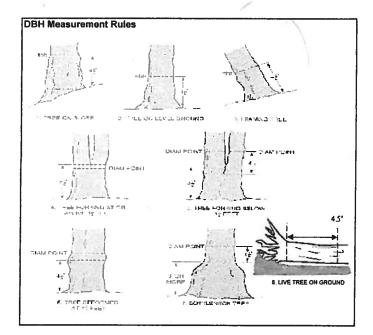
2bCM PCAP Species Cover Data Sheet Back Page_ver 1.3.ppt

CLEVELAND MET Project Label:	CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet 2a Project Label: PCAP Project name: (1) &r 2013	າent Program Species Cover Data Project name: ປ່າ ອີກ ລວງ 3	es Cover Da ပြု ၆၈ သူဂျ	ta Sheet 2 3	a Plot no.:	1249			Page	ge b	2 of	ಬ	
Total modules:	10	Intensive modules:	4 PI	Plot configuration:	11	2×5		Plot area (ha):	ea (h	(a) -	_		
⊗	Br = Browse Level. Use cover classes to	Estimate for each intensive module:	mod corner mod depth cov depth	h cov depth	comer mod	comer mod	comer mod	oov 4	depth o	cov depth	od comer	depth R	SOV 20 COMPAGE
Metroparks	entire plot entire plot	%unvegetated open water %unveg. ground (bare soil)				-			-	++			
Strata - Cov. entire plot		%unveg. litter (bare litter)	-	_	-	-	-		-	-			
T S H (F)(A) Br		c Voucher#	depth cov depth	h cov depth	cov depth	coν depth	cov depth	8	depth	cov depth	pth cov	depth	000
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<u>87</u>	Fraxinus pennsulvanica		-	1000	-	کو	41					-	
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と	Sassatras albidum						W	ţ	f	9	9		
	Monotrana uniflora			7			N		_				
93	beersia virginica						رو	စ					
22	Portentilla &p.						رو		1553		100		
4	Carpinus capilaiana	,					57			3	3 4		
(U)							4		4	ಖ	11.2		
ນ	Humanus abavatus		_		_				-				
W.					-		-					R	W
92	Acisasma triphyllum taphyllum		-				-					P	စွာ
												D	_
	Carya ovasa											70	5
<i>(</i> 2)	Cama sp.											D	I
2	Podophyllum peltatum								-	+		B	دو
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					-								
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				The state of									



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

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet Berbens thumberging Berbens Thinbergin Standing Acer Norum Standing dead Berbens thombergin Ropolus grandentalla Berberis thunbergii Explain subsample (additional room on back) Smilar roundifolial Quercus rubra Smilax coundifolia Standing dead Populus deltoides Smilax nomationed ropulus araidentata Hier Nown Her wown Cratedous Sp. categas 50 HOES SUBSUM Sylves Swizer (Fagus grandifolia ragus grandi folia species De 3 P Project Label: PCAP 9 9 # stems browsed 0-1.4m or super % sub Project Name: 016 r 2013 clumps shrub # size class (cm) woody stems >1.4m <u>የ</u> 0 0 0 1-<2.5 2.5-<5 Plot No.: 1349 0 5-<10 10 - <15 15 - <20 0 0 20 - <25 Page: .0 25 - <30 30 - <35 앜 ø Sieveland Metropants 35 - <40 ō 47.3 >40 (record each tree) A



Woody Stem Deer Browse

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

Record using the tally system from 1 to













ASH CANOPY CONDITION

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



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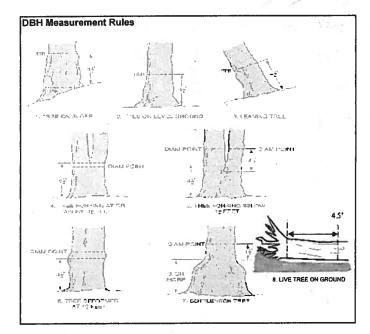
ASH CANOPY BREAKUP CONDITION (for dead trees):

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

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

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP Project Name: 0 | 3 | 20 | 3 | Plot No.: Standing dead Querais allos brainilars uniqual Hier rubrum Smilax Cotundified OStryd virginiand Explain subsample (additional room on back): tagus aranditolia Laus arandifolia PLANO PASTY RJOH SMANT trunus Serosad ornus florida Carya sp. Smilax roundifolia Standing dead Hier Saccharum Carpines Caplinad Handing dead Haer rubrum Stryd virginians species for conditora voucher# 区区 # stems 91.4m or super sample % sub shrub # size class (cm) woody stems >1.4m 7 1-<2.5 2.5-<5 0. Plot No .: 1349 • 5-<10 10 - <15 15 - <20 20 - <25 Page: 25 - <30 30 - <35 잌 6 Seveland Metropades 35 - <40 ŏ 54.4 >40 (record each tree)



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.
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- 5. Dead canopy: No leaves remain in the canopy portion of the tree. It still counts as a 5 even if there are epicormic sprouts below the canopy (lowest branch) on the trunk.



В

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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)

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- 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.

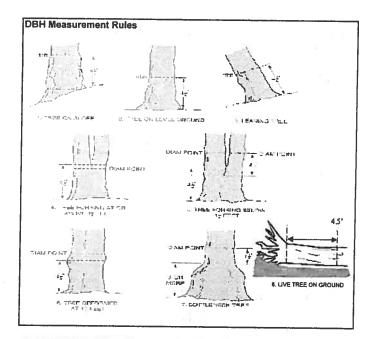
0 0 0 0 9 0 8 00 0 Prunus Secotina ACC NOWN Standing dead Evenymus obovota Similax rotund.tolid SASSAFAS 31 bidum Bedoon's thunberg Fagus a land folia Aces Jupan Smilex Cound tolind Explain subsample (additional room on back): Fagus grandifolid Hier Norm Smiles sound folid iciobenden wirked (arpinus carpliniana RAIR SOUND Carpinus caroliniana Acer Norm Smilex rotund foliz JASSELY & Albidua Drews Nord Fagus grands tolid species podus ဂ voucher# 0 ė # stems 0 0-1.4m browsed sample or super % sub . shrub size class (cm) woody stems >1.4m <u>ک</u> 1-<2.5 0 0 0 2.5-<5 6 5-<10 6 10-<15 15 - <20 σ 0 • 20 - <25 25 - <30 00 30 - <35 35 - <40 ō 55.3 40.4 >40 (record each tree) =

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet
Project Label: PCAP Project Name: 018(2013 Plot No.: 1540)

Project Name: 018(2013

Page:

© gleveland Metroparks



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

10







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 sunlight, die naturally and are not considered.
- 4. >50% Dieback: The canopy has less than half of the leaves that should be there and/or half of the top branches are dead.
- 5. Dead canopy: No leaves remain in the canopy portion of the tree. It still counts as a 5 even if there are epicormic sprouts below the canopy (lowest branch) on the trunk.



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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)

25	24	23	23	21	20	19	18	17	16	15	14	13	12	=	1 0	6	00	7	6	c ₁	4	3	2	_	Tree Module ID.	
																						110 1	1111 7	110	Species	
																						110	H		Dead ດ	
																									Voucher#	
																									(cm)	
			18					-																	Ht @ Ash *Dead DBH condition condition	
			94 94 94																							
																		_							holes	ASH
																									#Exit Epicarmic holes present	nly
	8																								Waodpecker holes	

*** Change intensive module numbers when necessary

9

8

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

2

ω

Tier 1: Early detection	Rapid response		Pre	esence		GPS	
		NE		sw	_		Presence
Microstegium vimineum	Japanese stiltgrass						X: yes
Ranunculus ficaria	Lesser Celandine						-
Cynanchum louiseae (vine)	Black Swallow-wort		\top	1.			_
Butomus umbellatus (wetland	Flowering Rush		_		1		\dashv
Heracleum mantegazzianum	Giant Hogweed	\top		\top			_
Tier 2: Assess a			# 01	Plant	S	comments	
		NE	SE	sw	NW		# of Plant
Acer platanoides	Norway Maple						1: 1-10
Ailanthus altissima	Tree of Heaven	\top		1.	+		2: 11-50
Lonicera japonica (vine)	Japanese Honeysuckie				1	· ,	3: 51-10
	Purple Loosestrife			_	+		4: 101-1,0
	Bishop's Goutweed		+-	+	+		5: >1,00
	Asian Bittersweet	+-	_	+	_		13: >1,00
Torilis sp.	Hedgeparsley		+-	+-	+		\dashv
Conium maculatum	Poison Hemlock	_			+-		-
Rhamnus cathartica	Common Buckthorn (shru	ы	+-	+-			-
Berberis thunbergii	Japanese Barberry (shru	-	-	1	-	-AC 11-07 10	-
Alnus glutinosa	European Alder	7	++	+-	+	CRF 11-27-13	-∤
Dipsacus laciniatus	Cut-leaf Teasel	+-	+	+			-
Elaeagnus umbellata		1	+-	+	+		-
Lonicera maackii	· · · · · · · · · · · · · · · · · · ·	_	+	-	-		-
Euonymus fortunei	Amur Honeysuckle (shrul	"			-		-
Tier 3: Presence is	Wintercreeper		1				_
Tiel 3: Fleselice is	orinterest	117	-	Plants		comments	
Convallaria majalis (G-cover)	Lily of the Valley	NE	SE	SW	NW		# of Plant
	Crown Vetch	-	-	-			1: 1-10
			+-				2: 11-50.
	Five-leaf Aralia (shrul	<u> </u>	-	-	-		3: 51-100
Pachysandra terminalis (G-cover) Philadelphus coronarius	Japanese Pachysandra		-	↓			4: 101-1,0
	Mock Orange (shru	D)		╄			5: >1,000
		-		_			_
Rubus phoenicolasius	Wineberry	-	-	-	1		_
	Yellow Flag Iris	4-	-				_
	Star of Bethlehem		+	 			
	European Cranberry (shrub	_	-	<u> </u>			
	Doublefile Viburnum (shrub)					
Tier 4: Widespread a	nd abundant		-	ence		comments	
Alliania matialat		NE	SE	SW	NW	Let the second of the second	# of Plants
Alliaria petiolata	Garlic Mustard	4_	+-	-		•	1: 1-10
	Common Privet (shrub	_		<u> </u>			2: 11-50.
. morrowii, L. tatarica	Bush Honeysuckles (shrub)	-	<u> </u>			3: 51-100
	Reed Canarygrass						4: 101-1,0
	Phragmites		1				5: >1,000
	lapanese Knotweed						
	Glossy Buckthorn (shrub)]
	Multiflora Rose (shrub)					11-27-13	
	Cattails (wetland)						7
irsium arvense	Canada thistle						7
Pipsacus fullonum	Common Teasel						7
lesperis matronalis	Dame's Rocket						-
inca minor (G-cover)	Periwinkle	_	_				-1

STANDING BIOMASS (required for emergent wetlands) collected in 0.1m clip plots (32x32 cm) from corners 1 and 3 in each intensive module. Required for VIBI-E score calculation. C?-check when CLEVELAND METROPARKS Plant Community Assessment Program - Plant Cover and Earth Surface

Project Label: PCAP Project Name: 0 8 7 3 0 3 MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only NOTE: tussock and hummocks are counted in BOTH nested quadrat corners but counts are aggregated. Stope 1 = sight elevational grade across module (hill) lodule # feature is present in moderate amounts, but not of highest quality, or in small amounts of highest quality anks for microhabitet features. Select one or select two and average the score.NOTE: If mod falls on a stope automatically gets ranked based on steepness (1-3) to begin + any features present feature is present in the wetland in very small amounts or if more common, of low quality feature is absent or functionally absent from the wetland feature is present in moderate or greater amounts and of highest quality 0 Project Label: depth 3 lussocks no. of ្ទ mix plands (Tip-Ups) 3,16x3,16m depth 2 no. of Slope 2 = falls on slope ~20 ° depressions по, тасго. 10x10m depth 1 □ FOREST □ swamp forest □ bog forest □ forest seep
 □ EMERGENT □ marsh □ wet meadow □ open bog □ SLOPE (ground water hydrology or on a physical slop) IMPOUNDMENT I Beaver II Human CLASSIFICATION o SHRUB o shrub swamp o tall sh. bog o tall sh. fen □ COASTAL (specify subclass) n RIVERINE o Headwater o Mainstem o Channel DEPRESSION Hydrogeomorphic class (WETLANDS ONLY): FIT = excellent g Fit and Confidence FRINGING D Reservoir D Natural Lake hio EPA VIBI Plant Community Class (WETLANDS ONLY): BOG (strongly, moderately, weekly ombrotrophic) 23 (2-12 cm) 10x10m depth 1 c.w.d 2 c.w.d. - count for pieces with Slope 3 = maximum steepness that can be safely sampled ~45° (count) (12-40cm) W/9 10x10m depth I c w d depth I >40 cm 10×10m c.w.d O 1m length 7 Fi File F F 7 F interspers microhab. 4w 10x10m depth 1 (rank) Conf Conf= Conf= Conf Conf= Conf= Conf= Conf microhab SLOPE 10x10m 0 (James)

Plot No.:

1349

(A) Glavest and Webroparto Page: 1 of 1

McNAB INDICES (degrees) + for up - for down

(FILLED OUT USING GIS PROGRAM - DO NOT FILL OUT IN FIELD)

+315 degrees	+270 degrees	+225 degrees	+180 degrees	+135 degrees	+90 degrees	+45 degrees	At aspect	
WN	W	WS	s	SE	п	NE	z	
								LFI
	1							TSI
	away	eye of person standing ~10 m	recorders eye to	TSI measure	angles formed by	horizon TSI is	LFI is angle of	

Landform Index (position within landscape)

Terrain Shape Index (site microtopographic shape)

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

9	8	3	2	Module	The second secon
ō	رو	0	17	Z	STREET, SQUARE, STREET, SQUARE, SQUARE
-	1	1	73	s	OSSISTATION OF THE PERSON NAMED IN
×	16	=	<u>る</u>	e	
7	تر	<u></u>	5	€	

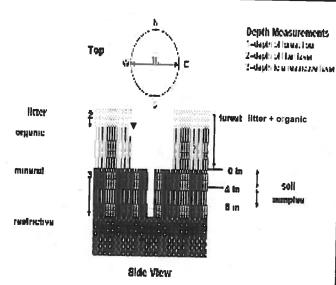
COVER BY STRATA

GENERAL FORM
Tree (overstory), very tall shrubs*, liana, epiphyte)
Tree (sapling), shrub, liana, epiphyte)
Herb, dwarf-shrub**, tree (seedling***)
Floating
Submerged

"Very tall shrubs are sometimes included in the tree stratum

**Can also include seedlings of shrubs, i.e. all shrubs <0.5m

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



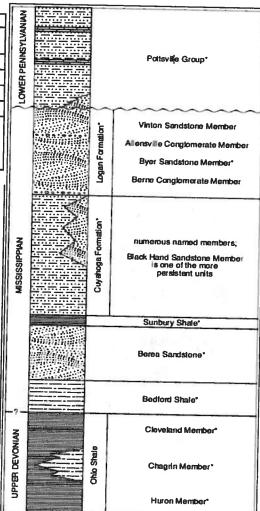


FIGURE 3-20.—Generalized section of Upper Devonian, Missasippian, and Lower Pennsylvanian formations in northeastern Ohio. Asterisks indicate units that are fossiliferous. This composite section represent about 400 meters of rock exposed across the area. The section is not to scale, but the thicknesses indicated are proportional. The term "Waverby is used in the older literature to refer to Missasippian rocks in Ohio. Some geologists use the European term "Carboniferous" which encompasses the Missasippian 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 (1955), Hoover (1960), and Collins (1979) for more information on Missasippian 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: 0 8 2 0 3

Citoreland 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 5 cm matrix color board= 2.59 matrix color 2.5 4 5/2 texture* hydro. cond.*** redox features** hydr. cond.*** oxid roots edox features** mortle Tho ru xid roots ottle color none monta O Cal ottle color hond ISMD I(S) M D 2 3 (z

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

I=indundated S=saturated M=moist D=dry

Notes: include evidence of earthworms (worms, castings, middens)

worms present

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

Soil Collection ModuldHortzon (A. B. C)

2,3,8,9 composited

A

Web Soil Survey Information:

Soil Series/Type: EIB - EllSH, ch, SIFLeen

Soil Series/Type: End mondates, Knolls on Grander

Landform type: End mondates, Knolls on Grander

Depth to rest. Layer, 80 t. 11

Parent Material: Till

DRAINAGE*

□ Excessively dr. □ Somewhat excessively
□ Well drained • Moderately well dr.
□ Somewhat poorly dr. □ Very poorly dr.

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

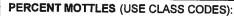
				_		
9	00	3	עפ	mod#		
3.0	1.0	a , 0	3.0	(cm)	organic depth	
3.0	1.0	a.0	3.0	depth (cm)	2 litter	
0.0	0.0	0.0	0,0	(cm)	water depth	
736	730	2,5	>30	soil (cm)	depth sat	
k	376 654	The May to				

				_								
	**** <5 cm in diameter	*** >5 cm in diameter	**Boulder = > 10 in	* Gravel-Cobble = 1/16-10*	Bedrock	Boulder**	Gravel-Cobble*	Mineral Soil	Histosol	(Sum = 100%)	Underlying Earth Surface*	EARTH SURFACE & GROUND COVER
		cter			0%	0%	070	10000	0%	percent	Ĺ	CE & GROUN
	Other	Road/Trail	Bare Soil	Water	Bryophyte- Lichen	Duff (Ferm.+ Humus)	Litter	Fine Woody Debris****	Coarse Woody Debris***	(Each ≤ 100%)	Ground Cover	D COVER
-	26	02	300	02	23.	0%	853.	5%	92	percent		

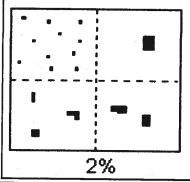
O	rooted and floating of	(Aquatic)*	(Floating)*	Herb 5	Shrub	Tree 5	Strata Heigh	COVER BY STRATA estimate using midpoi
(Floating)* (Aquatic)* rooted and floating or slightly emersed	•			5 - 1	1 . 5	5	Height Range (m)	TRATA
lightly emersed	•		•	.]	. s a	Q.	Range (m) Tota	COVER BY STRATA estimate using midpoints of 5,ex:3, 8, 13
				89.	890	13%	l Cover (%)	ี มี *

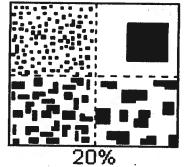
TRAIL INFORMATION:	
record type and cover for each	<u>ā</u>
TYPONE	%Cover
□ All Purpose	
n Bridle	
☐ Hiking sanctioned	
□ Bootleg unsanctioned	A
□ Gravel	
n Deer	

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



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





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

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

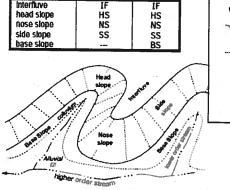
Geomorphic Component - Three-dimensional descriptors of parts of landforms or microfeatures that are best applied to areas. Unique descriptors are available for Hills, Terraces, Mountains, and Flat Plains:

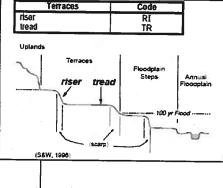
Code

PDP

NASIS

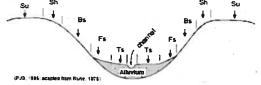
e.g., (for Hills) nose slope or NS.





Hillstope - 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.

Code
SU
SH
BS
FS
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.

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 .

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	5m HIGH)	0		0	0	0			.5m HIGH)	0	0	0	0	<u>O</u>		(•	ibs, Saplings <0.5m HIGH)	0	0	<u> </u>	<u> </u>	<u> </u>	
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Lit	ter, duff	0	0	0	0			Lif	ter, duff	0	0	0	0	<u>O</u>		Ł	itter, duff	0	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
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Road - fou	ır lane	WAY.	Same	0	0	0		Water Lev	el Contro	Stru	cture	-	0	0		Row Crops			81	0	0	0	
Parking Lo	ot/Paven	nent		0	0	0		Excavation	2	ng		0	0	0		Fallow Fiel	D)		1G	의	0	0	
Golf Coun	se			0	0	0		Fill/Spoil B		Sadin	ont	0	0	0		Fallow Fiel SHRUBS, TRI		ASS,		의	의	0	
Lawn/Parl				0	0	0		(UNVEGETAT	ED)			0	0	0		Nursery				의	의	0	
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Oil Drilling				0	0	0		Forest Clea	r Cut			0	0	0		Herbicide U	Jse			0	0	0	
Gas Wells				0	0	0		Forest Sele	ctive Cut			0	0	0		Mowing/Sh	rub Cutting	9		0	0	0	
Mine (surf	ace)			0	0	0		Tree Planta	tion			0	0	0		Trails				0	0	0	
Mine (und	erground	1)		0	0	0		Tree Canop	y Herbiv	ory		0	0	0		Soil Compa	action (UMAN)			0	0	0	
Military				0	0	0		Shrub Laye		d			0	0		Offroad vel		ge		0	0	0	
Other:				0	0	0		Highly Graz	ed Grass	ses		0	0	0		Soil erosion		D, WA	TER,	0	0	0	
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Eurasian Watermilfoil	0	0	0		Purple Loosestrife	0	0	0		Johnson Grass	0	0	0	
Water hyacinth	0	0	0		Knotweed	0	0	0		Kudzu	0	0	0	
Yellow Floating Heart	0	0	0		Japanese Knotweed	0	0	0		Multiflora Rose	0	0	0	
Giant Salvinia	0	0	0		Perennial Pepperweed	0	0	0		Common Buckthorn	0	0	0	
Garlic Mustard	0	0	0		Giant Reed	0	0	0		Himalayan Blackberry	0	0	0	
Poison Hemlock	0	0	0		Cheatgrass	0	0	0		Tamarisk	0	0	0	
Mile-A-Minute Weed	0	0	0		Reed Canary Grass	0	0	0		Other:	0	0	0	
Birdsfoot 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	
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							FOF	RM B-1:	BUFF	ER	SAN	APLI	E PL	OT	S (Fr	ont)	Re	viewed	d by (init	al):	_	- (
Site I	D:	PC	AP.	ot	Ba	13	34	9									1.0				3	_	
Location	on:								Fill	in b	ubb	le(s)	if pl	ot(s			sampled	an	d flag		•	1	
OAAC	Center	0	N	0	S	6 E	0		OP			10000	lot 2		P P	lot 3						1	
Fill in bubble Strata Section	es for all th on: Fill in a	at app	oly: Ca orlate c	nopy 1	Гуре: I	D = D	eciduou: for each	. C - Evenn	Buffer een. Leaf T or each plo	me. E	a = Am	adlesf	N = N	eedle	Leaf. Al	osent: No tree derate(10-409	e canopy. %); 3 = Heavy	(40-7	'5%); 4	= Ven	y Hea	ıvy (>	75%)
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Lit	ter, duff	0	0	0	0			L	itter, duff	0	0	0		0		L	itter, duff	<u> </u>	O(0)	<u>)(</u>	-	<u> </u>	
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	ubmerged		0	0	0	0			ubmerged Vegetation	0	0	0	0	0			Submerged Vegetation	<u></u>	0		<u> </u>	0	
	egetation Pres	senc	e/Ab	send	e - 1	Confi	rm that			ndica	ites p	resen	ce and	anı	unfilled	bubble indi	cates abser	ce b	y filling	this	bubt	ole.	3.
THE STATE OF THE S	idential	-		-					Hydrolo	1000						1000	Agricultu						
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Road - gr				0	0	0		Ditches, 0	hannellz	ation		0	0	0	marrier, Section With the	Pasture/Ha	ay			5	o	o	
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Road - for	ur lane		JAI	0	O	0		Water Le		ol Str	ucture	-	0	0		Row Crops	5	100		5 (0	0	
Parking L		nent		0	0	0		Excavation	n, Dredgi	ng	8	0	0	0		Fallow Fie	Id (RECENT-R	ESTIN	G (5 (o	0	
Golf Cour				0	0	0		Fill/Spoil	Banks	Will	72.13	0	0	0			Id (OLD - GRA	SS,) (0	0	
Lawn/Par	k	N/D		0	0	0		Freshly D		Sedir	ment	0	0	0		Nursery) (0	0	
Suburban	Resider	ntial		0	0	0		Soil Loss	and the second second	osur	9	0	0	0		Dairy				2	<u> </u>	이	
Urban/Mu	ultifamily			0	0	0		Wall/Ripr	ар		14	0	0	0		Orchard			_	_	_	이	
Landfill		1		0	0	0		Inlets, Ou				0	0	0		Confined /	Animal Feed	ling	(2	이	0	
Dumping				0	0	0		Point Sou (EFFLUENT	OR STORM	WATE	R)	0	0	0		Rural Res	idential		- (2	\rightarrow	이	
Trash				0	0	0	(8)	Imperviou (SHEETFLO		inpu	T	0	0	0		Gravel Pit	K-K		1	2	이	이	
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Other:				0	0	0		Other:				. 0	0	0		Other:				<u> </u>	<u>이</u>	이	
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Oil Drillin	g		2	0	0	0		Forest Cle	ar Cut		n	0	0	0		Herbicide	Use		(2	이	0	
Gas Well	ls			0	0	0		Forest Sei	ective Cu	it		0	0	0		Mowing/St	rub Cutting		(2	이	0	
Mine (sur	face)			0	0	0		Tree Plant	ation			0	0	0		Trails			- (기	이	0	
Mine (und	dergroun	d)		10	0	0		Tree Cand	py Herbly	vory		0	0	0		Soil Comp (ANIMAL OR				2	0	0	
Military		SIL		0	0	0		Shrub Lay		ed		0	0	0			hicle dama			5	0	0	
Other:				0	0	0		Highly Gra	zed Gras	ses		0	0	0		Soil erosio	n (FROM WIN	D, WA	TER,	2	•	0	
Other:				0	0	0		Recently I		rest		0	0	0		Other:				5	0	0	
Other:	150			lo	0	ō		Recently I	Burned Gi	rassla	and	0	0	0		Other:				5	0	0	
	lag code:	s: K =	No m			t mad	e, U = :	Suspect mea	surement.	, F1,	F2, etc	. = mis	sc. flag	s ass	igned b	y each field	crew.	2	24283	68	304		
	Buffer Sa	mple	Plot	s 0!	5/27/	2011	oiain aii	flags in com	ment secti	ion oi	tne t	Pack of	this fo	errii	Time!								

F	ORN	! B-	1:	BUFF	ER SAMPLE PLOTS	S - T	ARG	ETE	D AL	IEN SPECIES (Back) Reviewed	by (initi	al):		•
Site ID:	- 8	CAY	PB	r 13	49	_ D/	ATE:	0.	71	1012013				
O Confirm	a fill	ed d	ata b	ubble l	ndicates presence and an	unfille	d bub	ble in	dicates	s absence by filling in this but	ble	eolis		
Fill bubble if present - Plot		2		Flag	Fill bubble if present - P			T	Flag		_	2	3	Fie
Eurasian Watermilfoil	0	0	0		Purple Loosestrife	C	-	-	19	Johnson Grass	-	-	-	Fla
Water hyacinth	0	0	0		Knotweed	C	-	-		Kudzu	0	0	0	
Yellow Floating Heart	0	0	0		Japanese Knotweed	C				Multiflora Rose	0	0	0	
Giant Salvinia	0	0	0		Perennial Pepperweed	C	_	-		Common Buckthorn	0	0	0	
Garlic Mustard	0	•	0		Giant Reed	C		0	-	Himalayan Blackberry	0	0	0	
Poison Hemlock	0	0	0		Cheatgrass	C	-	-		Tamarisk	0	0	0	
Mile-A-Minute Weed	0	0	0		Reed Canary Grass	0	_	0			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		Other:	0	0	0	
							10	10			0	0	0	
	1315			Designation of the last of the	PLOT COO	-				Other:	0	0	0	
O AA CENTER O NO	3 (O 83	3 (D E3	9.9.8.1	Lo	ngitu	de W		and comment below)	4.		Fla	g
Flag Comments					Use Decimal De	grees	NAC	983						
	20 p	0	lro	op c	ox-f; unable-	to	sa	mp	لو 1	® € 3				
									<u>-</u>	2.5				
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Buffer Sample Poi					ecies 05/27/2011					7966	623!	548		7

	50	1500						M D 4	DUFF	FD.	CAR	ID!	= D1	OT	C /E-	ont)		mand but	mistal).			
Site I	D: PC	ADT	3-	13	4.9	9	FOR	RM B-1:	BUFF	EK	SAN	IPL	: PL				1 1 0 I	ewed by (3		
Location			71						FIII	in b	ubb	le(s)	if pl				sampled					
OAAC		0	N	0	S	OE	•	w	OP				Plot 2			lot 3					_	2.
								200	Buffer	Nati	ıral	Cove	er St	rata					2			
Fill in bubble Strata Sectio	s for all th on: Fill in a	at app	ly: Ca riate c	nopy 1 over c	Type: (lass b	D = De ubble	eciduou: for eacl	s; E = Evergro strata type f	een. Leaf T or each plo	ype: E t. 0 = /	3 = Bro Absen	adleaf t; 1 = S	N = N parse(eedle <10%	Leaf. A	bsent: No tree derate(10-40°	e canopy. %); 3 = Heavy (10-75%);	4 = Ve	ery Hea	vy (>	75%)
Buffer	Canopy	/ Тур	e: 🜘) () Ab	sent	Ö	Buffer	Canopy	/ Тур	e: 🕒	() Ab	sent:	0	Buffer	Canopy Ty	pe: 🗿	<u>0</u>	Abs	ent:	<u> </u>
Plot 1	Leat	f Type	e: 🌘) (Flag	Plot 2	Lea	f Typ	e: 🕒	<u>(</u>)		Flag	Plot 3	Leaf Ty	pe: 🕦	<u> </u>			Flag
Big Trees (>	0.3m DBH)	0	0		0	0		Big Trees (>0.3m DBH)	0	0		<u> </u>	<u> </u>		Big Trees	(>0.3m DBH)		-		<u> </u>	
imall Trees (<	0.3m DBH)	0	0	0	0			Small Trees	(<0.3m DBH)	0	0		0 0	\odot		Small Trees			0	<u> </u>	<u> </u>	
Woody Shrubs	s, Saplings 5m HIGH)	0	0		0	0		Woody Shrub (0.5n	os, Saplings n-5m HIGH)	0	0	0	0				ibs, Saplings m-5m HIGH)		<u> </u>	<u> </u>	<u> </u>	
Woody Shrubs, Saplings (<0.5m HIGH)														<u> </u>	<u> </u>							
Herbs, Forbs and Grasses Grasses Grasses Grasses													0	0	<u> </u>							
Bare	ground	0	0		0	0	Ī	Bar	e ground	0	•	0	0	0		Bai	e ground		②	0	\odot	
Lit	ter, duff	0	0	0	0			L	itter, duff	0	0	0	0	•		l	itter, duff		0	0	0	
	Rock	0	0	0	0	0			Rock	0	0	0	0	0			Rock ©		0	0	0	
	Water	0	$\frac{\circ}{\circ}$	0	0	\odot			Water		0	0	0	ŏ			Water (0	0	0	0	
	bmerged	-	0	0		0			ubmerged		0	0	<u></u>	ŏ			Submerged Vegetation		0	0	তা	
Strees	egetation	enc	\sim	\sim	_	_	m that		Vegetation	ndica	\sim	~		_	unfilled	bubble indi	cates absenc		ng this	s bub	ole. (9
	dential	-	-		_				Hydrolo	7			100	True l			Agricultura					
	-611			1	2	3	Flag	Fill bubbl				1	2	3	Flag		e if present -	- 1	1	2	3	Flag
Fill bubble		ent - i	PIOL				riay	Ditches, C			100	0	0	0		Pasture/Ha			0	o	o	
Road - two		-		0	0	0		Dike/Dam			1	0	Ö	0		Range	-,		0	ŏ	ö	
Road - for			30	0	0	0		Water Lev		ol Stri	ucture	-	0	Ö		Row Crops	3		0	o	ŏ	
Parking L		nent		0	0	0		Excavatio				0	ō	Ö			d (RECENT-RES	TING	0	0	0	
Golf Cour		TOTAL		0	0	0		Fill/Spoil I				0	0	ō		Fallow Fie SHRUBS, TR	d (OLD - GRASS		0	<u>ा</u>	o	
Lawn/Parl				0	0	0		Freshly D		Sedir	nent	ō	0	0		Nursery			0	0	0	
Suburban		ntial		0	ō	0		Soil Loss		osure	9		0	0		Dairy			0	0	0	
Urban/Mu				0	0	Ō		Wall/Ripr	ар			0	0	0		Orchard			0	0	0	
Landfill				0	0	0		Inlets, Ou	itlets			0	0	0		Confined /	Animal Feedir	ng	0	0	0	
Dumping		100		O	0	0		Point Sou (EFFLUENT	rce/Pipe	WATE	R)	0	0	0		Rural Res	idential		0	0	0	
Trash		, initial		0	0	0		Imperviou (SHEETFLO	is surface	Inpu	t	0	0	0		Gravel Pit			0	0	0	
Other:			1000	0	0	0		Other:				0	0	0		Irrigation		II &	0	0	이	
Other:				0	0	0		Other:				0	0	0		Other:			0	0	0	
Indu	strial D	evel	opm	ent	Stres	ssor	8					1	Habit	at/V	egeta	tion Stres	sors					
Fili bubbi	e if pres	ent -	Plot	1	2	3	Flag	Fill bubbi	e if prese	ent -	Piot	1	2	3	Flag	FIII bub	ble if present	- Plot	1	2	3	Flag
Oil Drilling	,			0	0	0		Forest Cle	ar Cut			0	0	0		Herbicide	Use		0	0	0	
Gas Well:	s			0	0	0		Forest Sel	ective Cu	t		0	0	0		Mowing/SI	rub Cutting		0	0	0	
Mine (sur	face)	MI X		0	0	0		Tree Plant	ation			0	0	0		Trails			0	0	0	
Mine (und	dergroun	d)		0	0	0		Tree Cand	py Herbiv	ory	11/	0	0	0		Soil Comp (ANIMAL OR	action HUMAN)		0	0	0	
Military				0	0	0		Shrub Lay		ed		0	•	0			hicle damage	,	0	0	0	
Other:				0	0	0		Highly Gra	zed Gras	ses		0	0	0		Soil erosio	n (FROM WIND,	WATER,	0	0	0	
Other:				0	0	0		Recently E		rest		0	0	0		Other:	-/		0	0	0	
			-	6		-		Recently E		assla	and	6	0	0		Other:			0	0	0	
Other:	ian codo	r. K =	No m		emen	O	e. () = 1	(BLACKENEL Suspect mea	surement.	, F1.F	-2, etc	. = mis	sc. flag	s ass	igned b	y each field	crew.	2.42	816			
	Ruffer Sa					Ext	olain aii	flags in com	ment secti	on or	the b	ack of	this fo	om)		da 14		242	010	J J U 4		

Site ID:	10	AF	3	13	49	DAT	E:	3 7	7_/	Reviewed to 1.0.1.3	, (5
Oconfirm	a fill	sb be	ıta bı	ubble ir	ndicates presence and an uni	-				absence by filling in this bub	ble			
Fill bubble if present - Plo		2	3		Fill bubble if present - Plot	1	2	3	Flag		1	2	3	Flag
Eurasian Watermilfoil	0	0	0		Purple Loosestrife	0	0	0		Johnson Grass	0	0	0	
Water hyacinth	0	0	0		Knotweed	0	0	0		Kudzu	0	0	0	
Yellow Floating Heart	0	0	0		Japanese Knotweed	0	0	0		Multiflora Rose	0	0	0	
Giant Salvinia	0	0	0		Perennial Pepperweed	0	0	0		Common Buckthorn	0	0	0	
Garlic Mustard	0	0	0		Giant Reed	0	0	0		Himalayan Blackberry	0	0	0	
Poison Hemlock	0	0	0		Cheatgrass	0	0	0		Tamarisk	0	0	0	
Mile-A-Minute Weed	0	0	0		Reed Canary Grass	0	0	0		Other:	0	0	0	
Birdsfoot Trefoil	0	0	0		Common Reed	0	0	0		Other:	0	0	0	
Canada Thistle	0	0	0		Leafy Spurge	0	0	0		Other:	0	0	0	
										Other:	0	0	0	
	7			1113	PLOT COORE	MAIN	TEC		1233	Othor.			ol	
lag box, and describe where either placed as close to the Location of coordinat	the content	ording of P	nates lot 3	were ta as poss	sken and why in the comment sible or at the center of the last	ation (section acces	of the n belo ssible	trans	sect. Fil ne coon er Plot.	TRANSECT. This is important to in the "nearest practicable local dinates of the nearest practicable local dinates of the nearest practicable local dinates of the nearest practicable local displayers.				in the
flag box, and describe where either placed as close to the Location of coordinat O AA CENTER O N	the contents (cl	oording of P	nates lot 3	were ta as poss ne):	obtainates will indicate the local aken and why in the comment s ible or at the center of the last	ection dection access	of the holessible	trans bw. The Buffe	ne coon er Plot.		ation" le loc		e, fill can b	in the
flag box, and describe where either placed as close to the Location of coordinat O AA CENTER O N	the cocenter	oording of P	nates lot 3	were ta as poss ne):	O W3 O Nearest prac	ection dection access	of the holessible	trans bw. The Buffe	ne coon er Plot.	in the "nearest practicable loca dinates of the nearest practicab and comment below)	ation" le loc		e, fill can b	in the
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