

CLEVELAND METROPARKS Plant Community Assessment Program: Quality Control Form

Project Label:

PCAP

Plot No: 1329



Date Sampled: 7-8-13

Lead: Lance

Comment required if item answer is NO

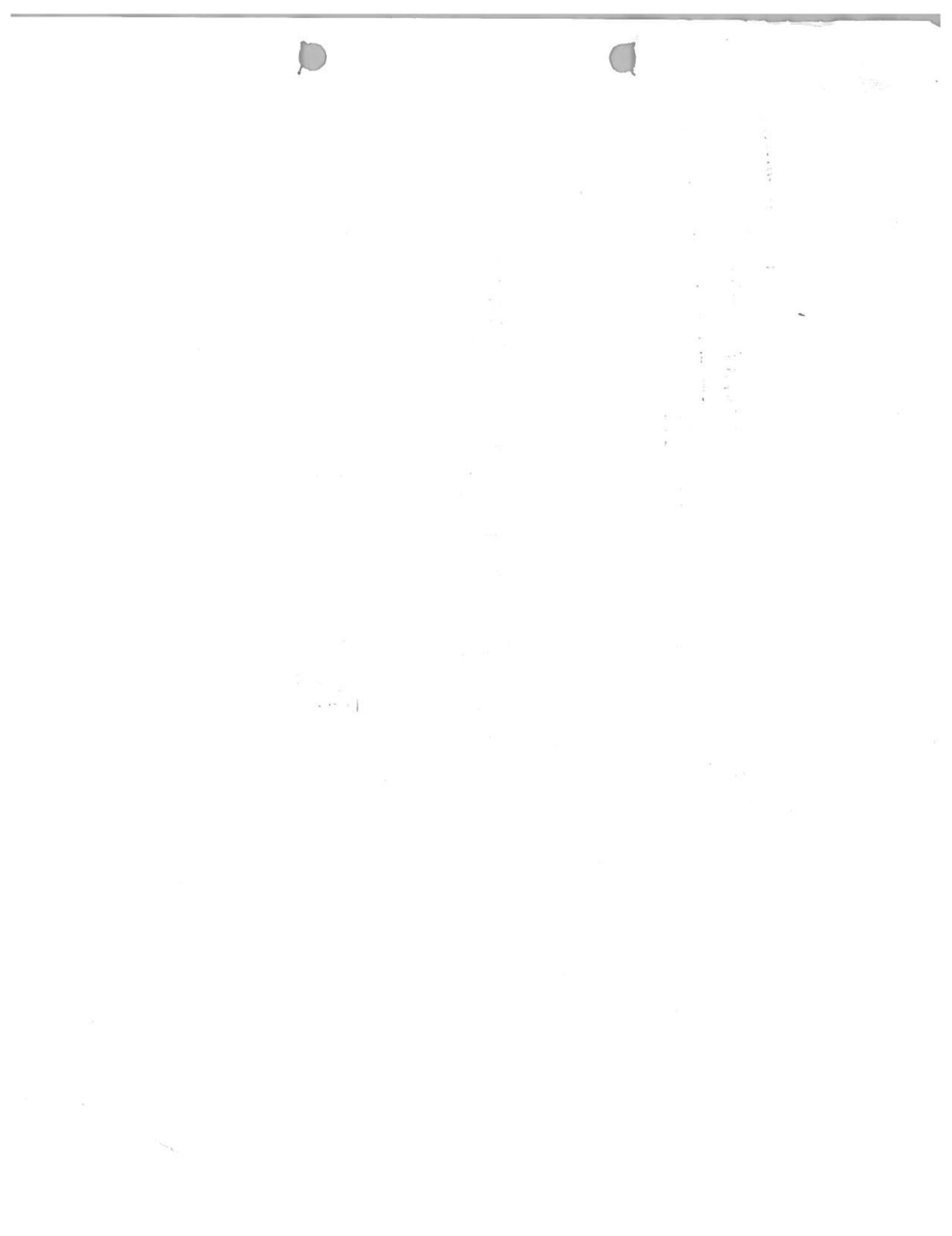
Parking/Access outside of Park Boundaries:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	If yes, write details in Comments section below
Field journals completed	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Site sketch made on 1:3000 map?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Check cover page	X-axis Bearing of plot recorded	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
	GPS coords Recorded	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
	North direction recorded	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
	Photographs taken?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Plot No., Date agreement on all pages?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Header data completed all pages?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Cover classes recorded in all Intensive modules	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Browse Level By Species	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Woody stem quality control check	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Invasive plant quality control check	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Ash trees mapped	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<i>NONE IN PLOT</i>
Cover by Strata? (confirm cover type)	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Soil samples collected with matching plot #.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Vouchers labeled on datasheet with initials and number	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Vouchers labeled on collection bag	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Pink flags removed	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Data sheet QA before leaving site?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Common equipment returned to tub.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Data sheets scanned?	07/12/13	Enter date to left AS
Final data sheets scanned?		Enter date to left
Buffer Widths measured?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	AL 6-20-13
Web Soil Survey	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	BB 7-12-13
Voucher Location	Refrigerator	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
(# vouchers collected)	Press (#)	Enter number to left
<i>ACL 072-073</i>	Drier	<input type="checkbox"/> Y <input type="checkbox"/> N
	Identified	<input type="checkbox"/> Y <input type="checkbox"/> N
	Mounted	<input type="checkbox"/> Y <input type="checkbox"/> N
	Thrown away	<input type="checkbox"/> Y <input type="checkbox"/> N

GRTS point verification: Is plot sampleable?

<input checked="" type="checkbox"/> Yes	Original GRTS point is sampleable
<input type="checkbox"/> No	Original GRTS point lands in a non-sampleable area (fill in category below)
	<input type="checkbox"/> Point falls in a water (i.e. river, lake)
	<input type="checkbox"/> Managed mowed area (i.e. golf course, picnic area, right-of-way)
	<input type="checkbox"/> Paved area (i.e. parking lot, road)
	<input type="checkbox"/> Unsafe to sample (i.e. steep slope)
	<input type="checkbox"/> Other

Additional Comments:

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CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

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Page 1 of 2

GENERAL INFORMATION	
Project Label:	PCAP
Project Name:	01 Br 2013
Plot Name:	Foggy bottom
Plot No.:	1329
■ Level 4 (no nested corners sampled)	
■ Level 5 (nested corners sampled)	
Date (mm/dd/yyyy): 07/09/2013	
End date (if > 1 day):	/ /
Party	Role**
A. Lance	Plot Leader
T. Lacerda	Assistant
A. Schraufnagel	Wandy Crew
R. Billard	Wandy Crew
* Notes: Co-leader, Ass., Guide, Owner, Taxonomist, etc.	
PLOT NOT SAMPLED:	
□ Other	
□ Paved □ Slope □ Safety	
SAMPLING QUALITY*	
Effort Level: Very thorough Accurate Hurried	
subjective evaluation of how much effort put into sampling. Hurried plots may still provide good data	
TAXONOMIC ACCURACY	
High	moder. low
Vascular	<input checked="" type="checkbox"/> not samp. <input type="checkbox"/> n/a
bryc.	<input checked="" type="checkbox"/> <input type="checkbox"/>
lichen	<input checked="" type="checkbox"/> <input type="checkbox"/>
TAXONOMIC STANDARD	
Authority:	G&C Pub Date: 1998
Minimum required fields in Bold and Underlined	

*Definitions and values in CM PCAP FOM v. 1.0 and CVS Field Guide

OVER

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

Project Label: PCAP Project Name: CIBR 2013 Plot No.: 1329 Page 2 of 2

Modified Nature Reserve Class:

Code (on separate form):

Fire _____

Crust _____

Human _____

Natural _____

Fire _____

Cut _____

Animal _____

Other _____

Community Name: Mesic Floodplain Sugar Maple Forest

SRE 9-23-13

Type*	Sensitivity**	Max age	% of plot	Description
Human	1			
Natural	2			
Fire	3			
Cut	4			
Animal	H	0	100%	Browse
Other	M	0	5%	trail

*L=low, M=med low, M=med, H=med high, H=high, VH=very high

Current Land Use: Park

Potential Land Use: Unknown

Homogeneous: Compositional trend across the plot:

□ Intra-patch pattern mosaic

HYDROLOGIC REGIME*

□ Upland (seldom flooded) □ Intermittently/frequently flooded

□ Intermittently/seasonally saturated □ Semi-permanently flooded

□ Permanently/Semipermanent, saturated □ Tidal/Seiche flooded daily

(dry <1/yr, seldom flooded)

□ Temporarily flooded ($<1/yr$) □ Tidal/Seiche flooded irregularly

(e.g. wind, storms)

□ Unknown

By default unless plot is a wetland

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

Wild Geranium, bottlebrush grass, Dryopteris carthusiana, and Smilax tamnoides. Invasive species presence is minimal; multiflora rose, barberry, and Euonymus alatus were discovered. Browse was substantial on several species.

CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet 2a

Project Label:

PCAP

Project name: 01 Br 2013

Plot no.: 132

Page 1 of 3

Total modules:

5

Intensive modules:

Plot area (ha):

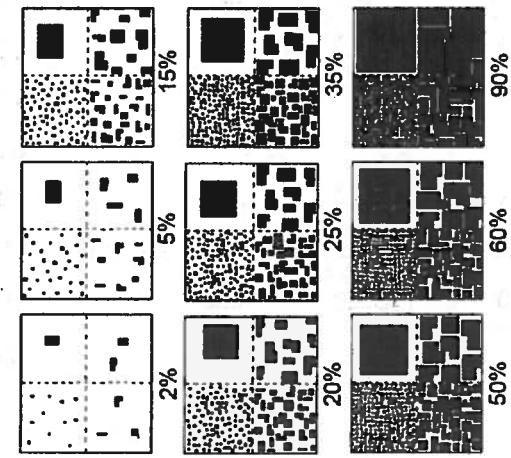


Gewerbe
Markt

describe amount of browse per species over entire plot

EXAMPLES OF PERCENT OF AREA COVERED

The following graphic can be used for various data elements to convey 'Amount' or 'Quantity'. NOTE: Within any given box, each tickmark contains the same total area covered, just different sized objects.



BROWSE RATING NARRATIVE DESCRIPTION

LOW OR NONE: there is no measurable browse line AND there are very few or no plants 1-m nested quadrat and intensive module. In general, low values relate to less than 10 percent, by numbers of stems browsed.

MEDIUM LOW values include evidence of browse at about 10 percent of the stems with no significant impact to plant reproduction evident. In this rating, plants are browsed but preferential species are observed to be reproducing in numbers that appear normal or near-normal in comparison to low browse areas. For example, trilliums may flower and fruit, but jewelweed and arrowwood viburnum exhibit browse.

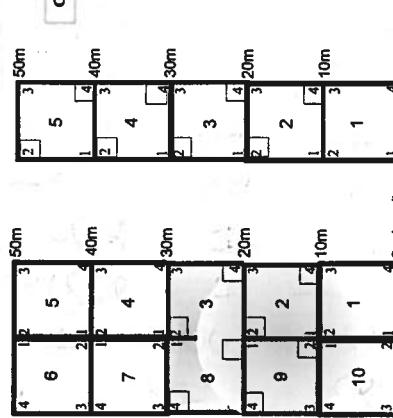
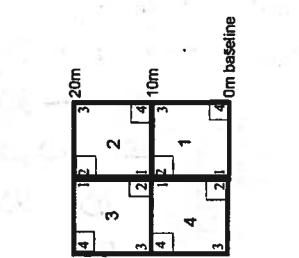
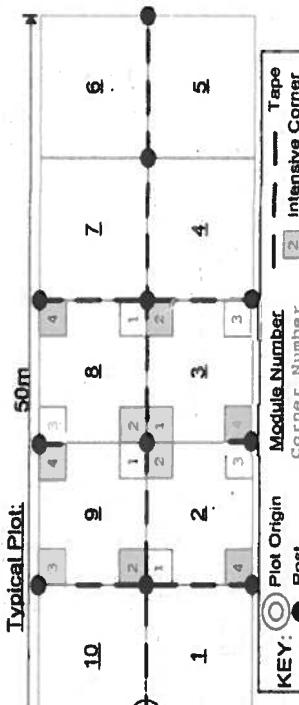
MEDIUM: browse affects greater than 10 percent and less than 25 percent of stems in the 1 m² nested quadrat and intensive module. A browse line is usually not evident or obvious for all classes and species of vegetation, but careful examination may show preferential browse and/or browse lines for some species of plants.

MEDIUM HIGH values include evidence of a browse line and 25 percent of stems browsed with very little vegetation regeneration evident. In this rating, for some species of plants, reproduction does not appear to occur or it is very severely limited.

HIGH: greater than 25 percent of the stems of plants in the 1 m² nested quadrat and intensive module **AND** a browse line is evident.

VERY HIGH values include extensive browse conditions, where the browse line is very evident **AND** almost all seedlings and herbs are severely browsed or missing.

Browse line may be 5 to 6 feet in height with no or little green growth beneath.



CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet 2a

Project Label: PCAP

Project name: Ol Br 2013

Plot no.: 1329

1

Total modules: 10

Intensive modules: 4 Plot configuration: 2x5

Plot area (ha): 0.1

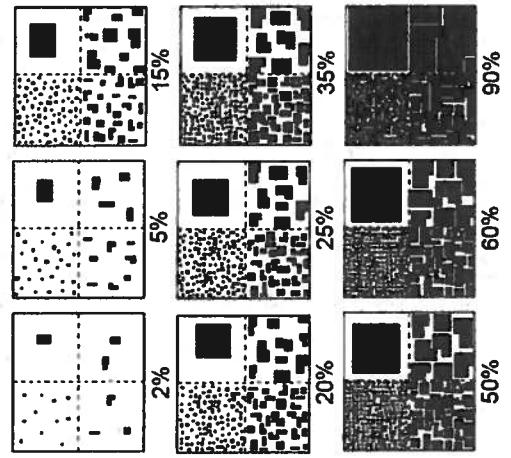


Gewerbe-
Metzpark

describe amount of browse per species over entire plot

EXAMPLES OF PERCENT OF AREA COVERED

The following graphic can be used for various data elements to convey "Amount" or "Quantity". NOTE: Within any green box, each quadrant contains the same total area covered, just different sized objects.



BROWSE RATING NARRATIVE DESCRIPTION

LOW OR NONE: there is no measurable browse line AND there are very few or no plants 1-m nested quadrat and intensive module. In general, low values relate to less than 10 percent, by numbers of stems browsed.

MEDIUM LOW values include evidence of browse at about 10 percent of the stems with no significant impact to plant reproduction evident. In this rating, plants are browsed but preferential species are observed to be reproducing in numbers that appear normal or near-normal in comparison to low browse areas. For example, trilliums may flower and fruit, but jewelweed and arrowwood viburnum exhibit browse.

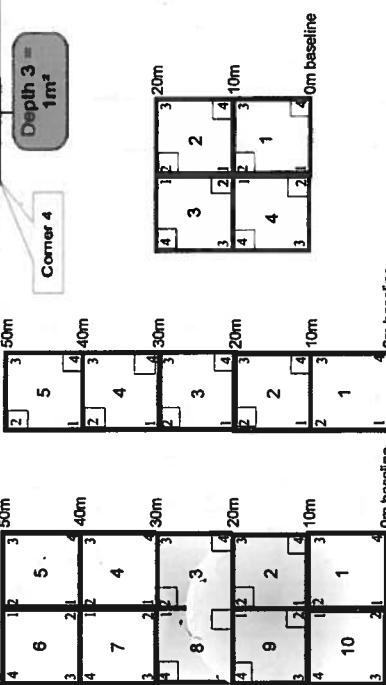
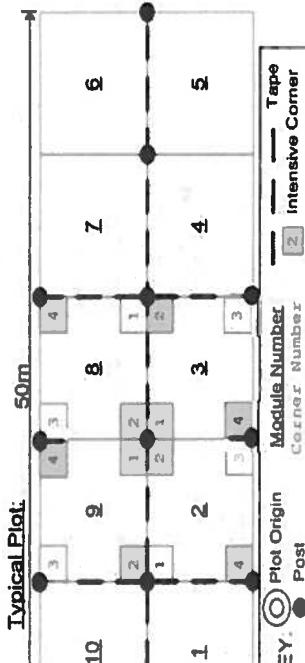
MEDIUM: browse affects greater than 10 percent and less than 25 percent of stems in the 1 m² nested quadrat and intensive module. A browse line is usually not evident or obvious for all classes and species of preferential browse and/or browse lines for some species of plants.

MEDIUM HIGH values include evidence of a browse line and 25 percent of stems browsed with very little vegetation regeneration evident. In this rating, for some species of plants, reproduction does not appear to occur or it is very severely limited.

HIGH: greater than 25 percent of the stems of plants in the 1 m² nested quadrat and intensive module **AND** a browse line is evident.

VERY HIGH values include extensive browse conditions, where the browse line is very evident **AND** almost all seedlings and herbs are severely browsed or missing.

Browse line may be 5 to 6 feet in height with no or little green growth beneath.



CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet

Flügel Lauer.

P
G
A
P

Project name: El Br 2013

Plot no.: 345

1010 JONES.

1

Intensive modules:

tion:

Plot area (ha): 8

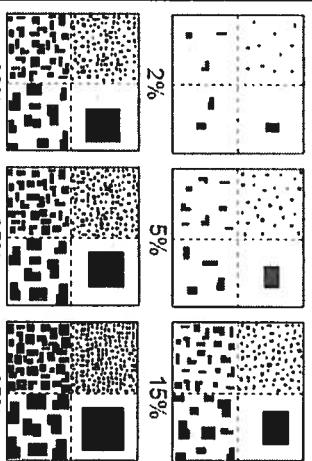
Visual Est % Open Water entire site

Visual-est. %unveg.o.w. entire-site:

%invasives_entire-site:

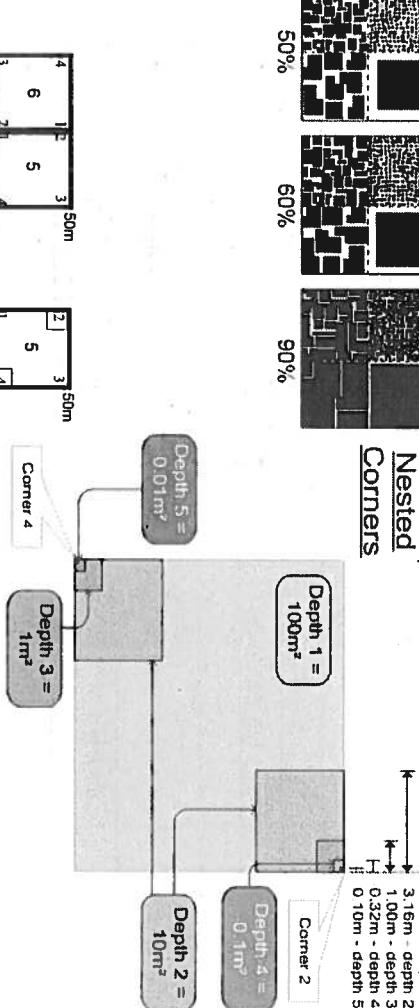
EXAMPLES OF PERCENT OF AREA COVERED

The following graphic can be used for various data elements to compare "X-number" or "Quantity". Note: Within any given box, each quadrant contains the same total area covered just different sized objects.



cover class	% cover	midpoint
1	solitary or few	0.0001
2	0-1%	0.005
3	1-2%	0.015
4	2.5-5%	0.035
5	5-10%	0.075
6	10-25%	0.175
7	25-50%	0.375
8	50-75%	0.625
9	75-95%	0.850
10	95-100%	0.975

Nested Corners



BROWSE RATING NARRATIVE DESCRIPTION

LOW OR NONE: there is no measurable browse line AND there are very few or no plants 1-m nested quadrat and intensive module. In general, low values relate to less than 10 percent, by numbers, of stems browsed.

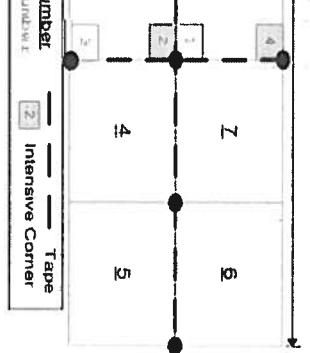
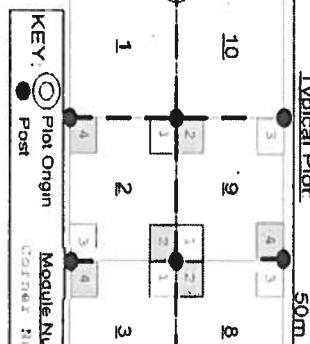
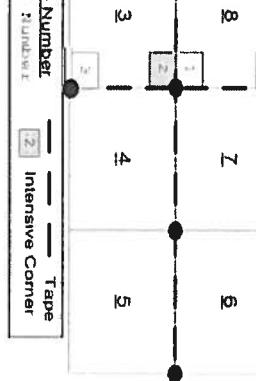
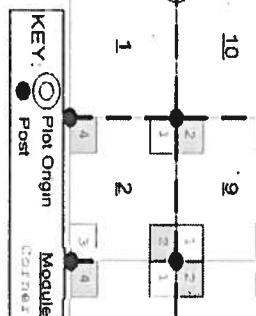
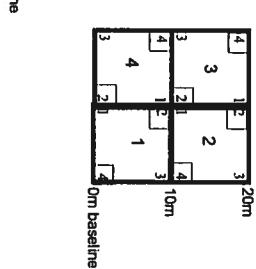
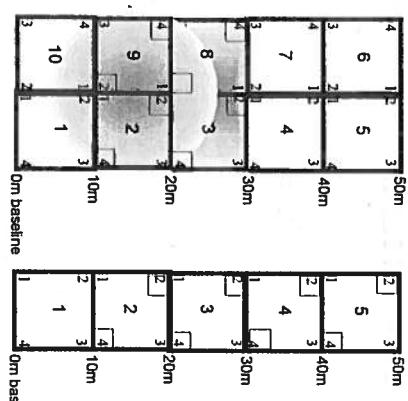
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MEDIUM HIGH values include evidence of a browse line and 25 percent of stems browsed with very little vegetation regeneration evident. In this rating, for some species of plants, reproduction does not appear to occur or it is very severely limited.

HIGH: greater than 25 percent of the stems of plants in the 1 m² nested quadrat and intensive module AND a browse line is evident.

VERY HIGH values include extensive browse conditions, where the browse line is very evident AND almost all seedlings and herbs are severely browsed or missing. Browse line may be 5 to 6 feet in height with no or little green growth beneath.



CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP

Project Name: 01 B. 2013

Plot No.: 1329

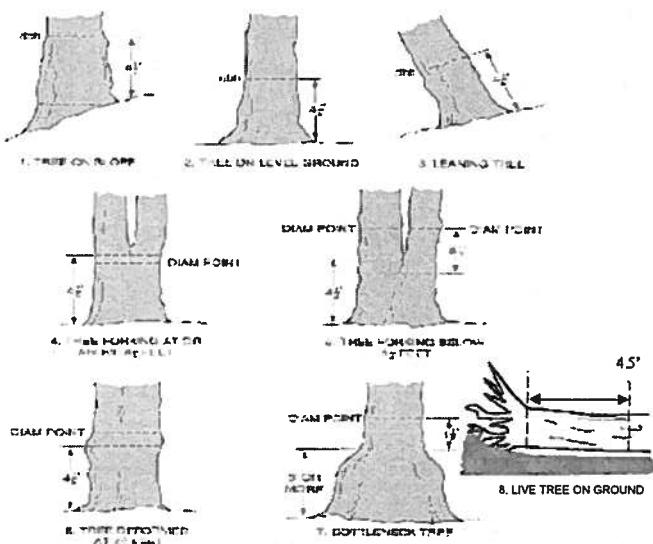
Page: 1 of 3

Explain subsample (additional room on back).

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mod #	species	c	voucher#	browsed	# sub sample	# shrub clumps	size class (cm) woody stems >1.4m										
							0-<1	1-<2.5	2.5-<5	5-<10	10.-<15	15.-<20	20.-<25	25.-<30	30.-<35	35.-<40	>40 (record each tree)
✓1	Acer saccharum																
✓1	Acer nigrum																
✓1	Fraxinus pennsylvanica																
✓2	Lindera benzoin																
✓2	Prunus serotina																
✓2	Acer saccharum																
✓2	Crateagus sp.																
✓2	Acer nigrum																
✓2	Fraxinus pennsylvanica																
✓2	Euonymus alatus																
✓2	Euonymus europaeus																
✓3	Acer nigrum																
✓3	Acer saccharum																
✓3	Standing dead																
✓3	Cornus florida																
✓3	Fraxinus pennsylvanica																
✓3	Ulmus sp.																
✓3	Smilax																
✓4	Fraxinus pennsylvanica																
✓4	Acer nigrum																
✓4	Acer saccharum																
✓4	Standing dead																
✓4	Fraxinus pennsylvanica																
✓4	Ribes sp.																
✓4	Euonymus ovatus																

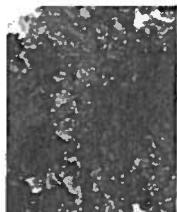
DBH Measurement Rules



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



1



2



3



4



5

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.



A

B

C

D

E

ASH CANOPY BREAKUP CONDITION (for dead trees):

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

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

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP

Project Name: 01 Br 2013

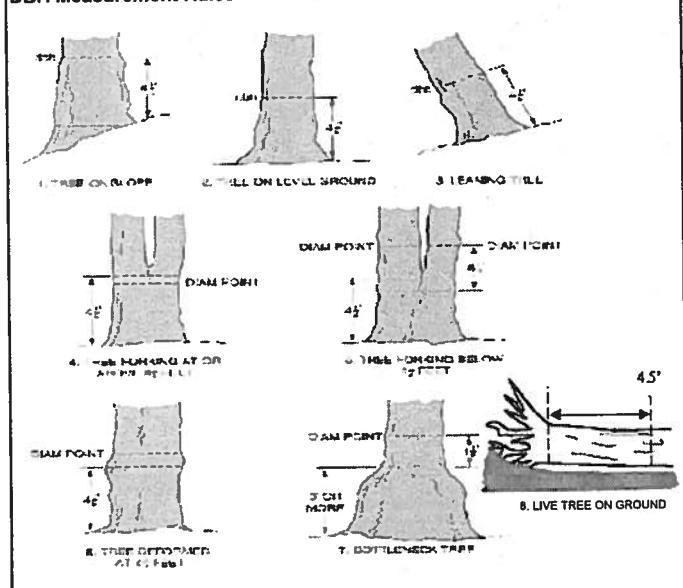
Plot No.: 1329

Page: 2 of 3

Explain subsample (additional room on back):

mod #	species	c	voucher#	# stems browsed	% sub sample	# clumps	size class (cm) woody stems > 1.4m	> 40 (record each tree)									
				0-1.4m	or super shrub	1	2	3	4	5	6	7	8	9	10	11	
✓5	Liquidambar styraciflua	3				1	1-2.5	2.5-<5	5-<10	10-<15	15-<20	20-<25	25-<30	30-<35	35-<40	>40 (record each tree)	
✓5	Acer saccharum															58.5	
✓5	Fraxinus sp.																
✓5	Standing dead																
✓5	Parthenocissus quinquefolia																
✓5	Prunus serotina																
✓5	Smilax tamnoides																
✓5	ROSA MULTIFLORA															36.3	
✓6	Standing dead																
✓6	Acer saccharum																
✓6	Parthenocissus quinquefolia																
✓6	Acer nigrum																
✓6	Ulmus rubra																
✓6	Ulmus americana																
✓6	Platanus occidentalis																
✓6	ROSA MULTIFLORA																
✓6	Fraxinus pennsylvanica																
✓6	Lindera benzoin																
✓7	Parthenocissus quinquefolia																
✓7	Acer saccharum																
✓7	Ulmus americana																
✓7	Standing dead																
✓7	Corylus regalis sp.																
✓7	Fagus grandifolia																

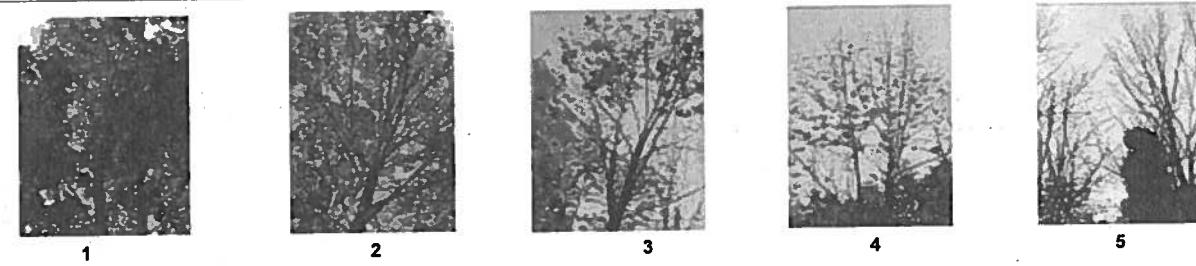
DBH Measurement Rules



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



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.



A



B



C



D



E

ASH CANOPY BREAKUP CONDITION (for dead trees):

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

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

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP

Project Name: 01 Apr 2013

Plot No.: 1329

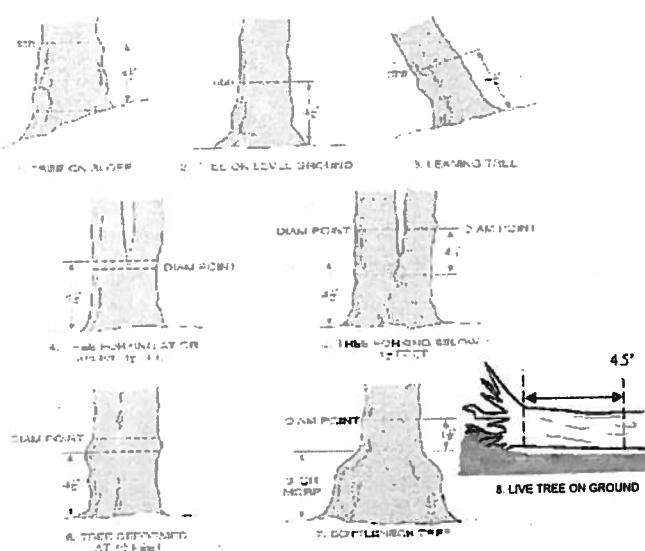
Page: 3 of 3

Explain subsample (additional room on back):

© Cleveland Metroparks

mod #	species	c	voucher#	# stems 0-1.4m browsed	% sub sample	# shrub clumps	size class (cm) woody stems > 1.4m											>40 (record each tree)
							0-1	1-2.5	2.5-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40		
7	<i>Fraxinus pennsylvanica</i>																	
8	<i>Acer saccharum</i>																	
8	<i>Pithecellobium quinquefolia</i>																	
8	<i>Fraxinus pennsylvanica</i>																	
9	<i>Acer saccharum</i>																	
9	<i>Acer nigrum</i>																	
9	<i>Platanus occidentalis</i>																	
9	<i>Liquidambar tulipifera</i>																	
9	<i>Fraxinus pennsylvanica</i>																	
9	<i>Elaeagnus pungens</i>																	
9	<i>Cornus florida</i>																	
10	<i>Acer saccharum</i>																	
10	<i>Acer nigrum</i>																	
10	<i>Lindera benzoin</i>																	
10	<i>Euonymus obovatus</i>																	
10	<i>Fraxinus pennsylvanica</i>																	
10	<i>Rubus occidentalis</i>																	
18	<i>BERBERIS THUNBERGII</i>																	
12	<i>BERBERIS HUNBERTII</i>																	

DBH Measurement Rules



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



1



2



3



4



5

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.



A

B

C

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)

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

Tree Number	Species	ASH Only					
		Voucher #	DBH (cm)	N @ DBH condition	Ash condition	Total holes	Epicormic present
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							

Change intensive module numbers when necessary

17

4

18

3

Suppose

Map all ash trees within each module using 10 cm radius

✓ Ash Condition scores (max) starting at top row
 count DB holes 1.25mm > 5cm
 Woopecker and epicormic marked present ✓ above 2

CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey



Cleveland Metroparks

Tier 1: Early detection / Rapid response		Presence				GPS		Presence	
		NE	SE	SW	NW			X: yes	
<i>Microstegium vimineum</i>	Japanese Stiltgrass								
<i>Ranunculus ficaria</i>	Lesser Celandine								
<i>Cynanchum laeve</i> (vine)	Black Swallow-wort								
<i>Butomus umbellatus</i> (wetland)	Flowering Rush								
<i>Heracleum mantegazzianum</i>	Giant Hogweed								
Tier 2: Assess as Needed		# of Plants				comments		# of Plants	
		NE	SE	SW	NW			1:	1-10
<i>Acer platanoides</i>	Norway Maple							2:	11-50
<i>Allianthus altissima</i>	Tree of Heaven							3:	51-100
<i>Lonicera japonica</i> (vine)	Japanese Honeysuckle							4:	101-1,000
<i>Lythrum salicaria</i> (wetland)	Purple Loosestrife							5:	>1,000
<i>Aegopodium podagraria</i> (G-cover)	Bishop's Goutweed								
<i>Celastrus orbiculatus</i> (vine)	Asian Bittersweet								
<i>Torilis</i> sp.	Hedgeparsley								
<i>Conium maculatum</i>	Poison Hemlock								
<i>Rhamnus cathartica</i>	Common Buckthorn (shrub)								
<i>Berberis thunbergii</i>	Japanese Barberry (shrub)	2	1	1	2				
<i>Alnus glutinosa</i>	European Alder								
<i>Dipsacus laciniatus</i>	Cut-leaf Teasel								
<i>Elaeagnus umbellata</i>	Autumn Olive (shrub)								
<i>Lonicera maackii</i>	Amur Honeysuckle (shrub)	2	1						
<i>Euonymus fortunei</i>	Wintercreeper	2		2					
Tier 3: Presence is of interest		# of Plants				comments		# of Plants	
		NE	SE	SW	NW			1:	1-10
<i>Convallaria majalis</i> (G-cover)	Lily of the Valley							2:	11-50
<i>Coronilla varia</i> (G-cover)	Crown Vetch							3:	51-100
<i>Eleutherococcus pentaphylloides</i>	Five-leaf Aralia (shrub)							4:	101-1,000
<i>Pachysandra terminalis</i> (G-cover)	Japanese Pachysandra							5:	>1,000
<i>Philadelphus coronarius</i>	Mock Orange (shrub)								
<i>Pulmonaria officinalis</i> (G-cover)	Lungwort								
<i>Rubus phoenicolasius</i>	Wineberry								
<i>Iris pseudacorus</i> (wetland)	Yellow Flag Iris								
<i>Ornithogalum umbellatum</i>	Star-of-Bethlehem								
<i>Viburnum opulus</i> var. <i>opulus</i>	European Cranberry (shrub)								
<i>Viburnum plicatum</i>	Doublefile Viburnum (shrub)								
Tier 4: Widespread and abundant		Presence				comments		Presence	
		NE	SE	SW	NW			X: yes	
<i>Alliaria petiolata</i>	Garlic Mustard	3	1	2	4	SRE 11-27-13			
<i>Ligustrum vulgare</i>	Common Privet (shrub)	1							
<i>L. morrowii</i> , <i>L. tatarica</i>	Bush Honeysuckles (shrub)	3			2				
<i>Phalaris arundinacea</i>	Reed Canarygrass								
<i>Phragmites australis</i> (wetland)	Phragmites								
<i>Polygonum cuspidatum</i>	Japanese Knotweed								
<i>Frangula alnus</i>	Glossy Buckthorn (shrub)								
<i>Rosa multiflora</i>	Multiflora Rose (shrub)	3	1	2	1				
<i>Typha angustifolia</i> , <i>T. x glauca</i>	Cattails (wetland)								
<i>Cirsium arvense</i>	Canada Thistle								
<i>Dipsacus fullonum</i>	Common Teasel								
<i>Hesperis matronalis</i>	Dame's Rocket								
<i>Viola minor</i> (G-cover)	Periwinkle								

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

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

Project Label: PCAP

Project Name:

01344229-2013

Plot No: 1329



Page: 1 of 1

STANDING HERBACEOUS Required for emergent wetlands calculated in 0.1m plots (30x30 cm from corners 1 and 3 in each intensive module. Required for VIB-8 area calculation. C7=check when collected)

Module #	C7	Corner	Corner

CLASSIFICATION

Int = Intensity, L = Fit and Confidence.

Intensities on CLEVELAND ONLY

	LIT	TEP
All aspect	N	
Aspect		
+45 degrees	NW	
-45 degrees	NE	
+90 degrees	E	
-90 degrees	S	
+135 degrees	SE	
-135 degrees	SW	
+180 degrees	S	
-180 degrees	N	
+225 degrees	SW	
-225 degrees	NE	
+270 degrees	W	
-270 degrees	E	
+315 degrees	NW	
-315 degrees	SE	

DATA INDEXES (checkmark) + for int - for stem)

FILLED OUT USING THE PROGRAM - DO NOT FILL OUT IN FIELD

INTENSITIES (checkmark) + for int - for stem)

Module	N	S	E	W
1	3	13	17	15
2	4	15	15	12
3	7	14	20	9
4	8	12	13	2
5				
6				
7				
8				

LIT is angle of plot to the horizon. TEP is angle formed by local slopes. Pct TS is measure angle from horizon eye to eye of person walking ~10 m away.

Landform Index (the ridgeline ratio).

Terrain Slope Index (the ridge slope ratio).

MICROTOPOGRAPHIC FEATURE COUNTS - Intensity, Intensity only

Count for microtopographic features. Select one or select two and average the value.

(N=2)

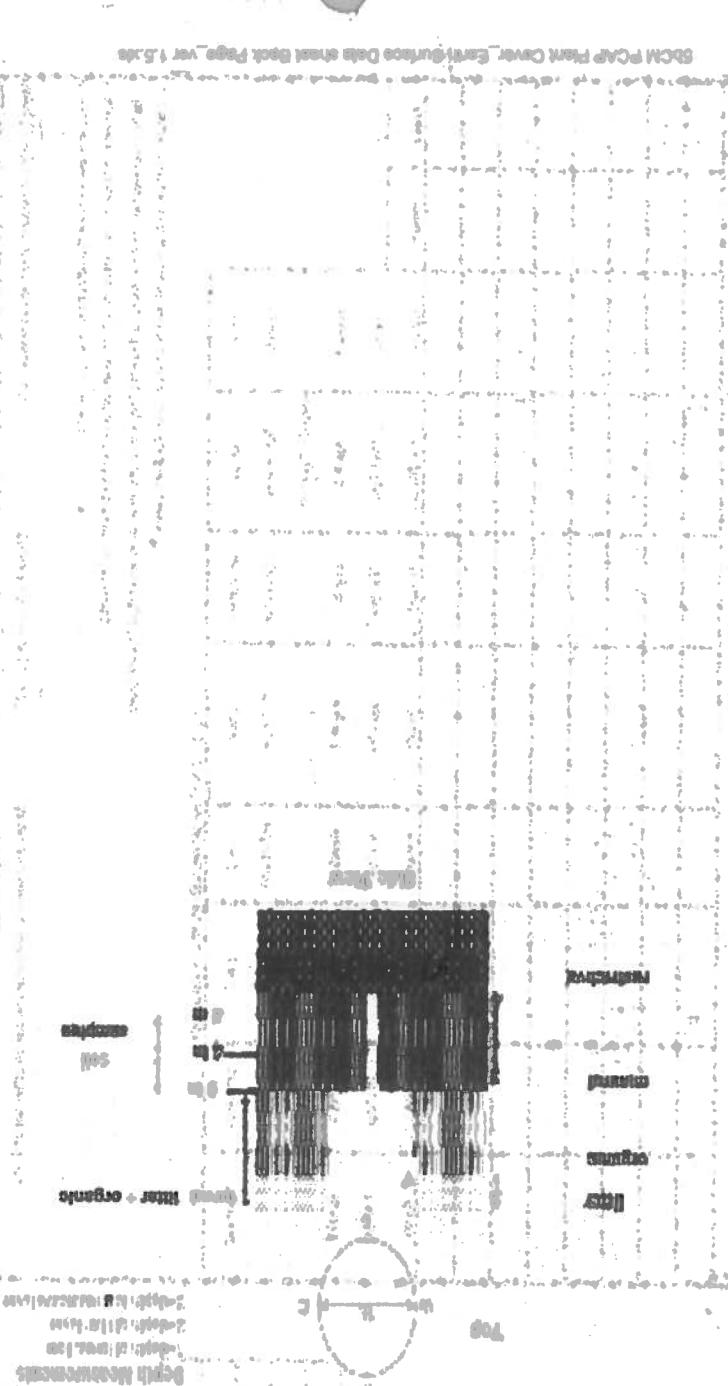
(N=1)

(N=2)

FIGURE 6-30 - Geotextile-protected section of Upper Delta Channel Ditch

UPPER REACH	
Huron Member	Ohio Shale
Cleveland Member	
Sedentary Shale	
Berea Sandstone	
Sandusky Shale	
Massillon Member	
Black Hand Sandstone Member	numerous named members;
Cuyahoga Formation	numerous named members;
Logan Formation	some Conglomerate Member
Vinton Sandstone Member	over-all Conglomerate Member
Pottsville Group;	over-all Sandstone Member
Shutu (generally 0.5 to 5 m)	Trees (overstory), very tall shrubs, lianes,
Heet (Field)	Heet, gneiss-schist, shale (seafloor ...)
Folded	Folded
Apertite (submarinified)	Submarine

COVER BY STRATA	GENERAL FORM	Tree (generally >5 m)	Tree (overstory), very tall shrubs, lianes,	Heet (Field)	Folded	Apertite (submarinified)	Submarine



SOIL PIT DESCRIPTION: Excavate 20 cm plug w/ shovel. Describe using Munsell chart.

visual exam, texture, and odor.

8/16/13
Soil pit module # 3 (cm per entire plot)

5 cm matrix color	2.5  3/2
moisture color	10 ore
Komotie	0
mineral	Y 
oxidation	Z
texture ^a	Y 
soil features ^b	N
hydro cond. class	I S D 
matrix color	2.5  4/2
moisture color	10 ore 
Komotie	0
mineral	Y 
oxidation	N
texture ^a	Z 
soil features ^b	N
hydro cond. class	I S M D 

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 Module/Horizon (A, B, C)	A
2,349 composted	
Web Soil Survey Information	
Soil Series Type: <i>Gesso - Gazzburg - Melton Silty Loam</i>	
Soil Series Source: Ohio Soil Survey	
Landform type: <i>Terraces</i>	

Depth to rest. layer: 80 + "
 Parent Material: *1.  2. * 

101 cm

EARTH SURFACE & GROUND COVER	
Underlying Earth Surface ^c	Ground Cover
(cm = 10%)	Percent
Hilstool	0%
Mineral Soil	100%
Gravel-Cobble ^d	0%
Boulder ^e	0%
Bedrock	0%
• Gravel-Cobble = 1/16-10"	Water
• Boulder = > 10 in.	Soil
• >5 cm in diameter	Rock/Trail
• <5 cm in diameter	Other
• Gravel	0%
• Debris	0%

SKL 8-26-13

COVER BY STRATA
 estimate using midpoints of 5, 6, 7, 8, 13

0.1 cm in center of intensive modules. If >30.5 cm, record as >30

Strata	Height (cm to top)	Rel. Cover (%)
Tree	5	93.2%
Shrub	1 - 5	13.2%
Herb	0 - 1	78.7%
Flowering ^f	-	0%
(Aquatic) ^g	-	0%

Strata	1 liter+ organic depth (cm)	2 liter water depth (cm)	depth est. soil (cm)
3	1.3	1.3	>30
4	1.7	1.7	>30
7	3.0	3.0	>30
8	1.4	1.4	>30

rooted sed/leach or slightly covered
 submerged, moist plant mass below surface

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

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

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

SEMI-PERMANENTLY 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 Covert drain & Intermittently Exposed and Semipermanently Flooded.

The U.S. where appropriate. This modifier can be applied to both wetland and non-wetland situations. Equivalent to Cowardin's *seascape* or *seascape* *peripherality*.

INTERMITTENTLY FLOODED: Substrate is usually exposed, but surface water can be present for variable periods without detectable substrate. Other characteristics wood-pile reefs and lower interc. This modeler was

TEMPORARILY FLOODED: Surface water present for brief periods during growing season, but water table usually lies well below soil charac-
terizes floodplain upper terrace.

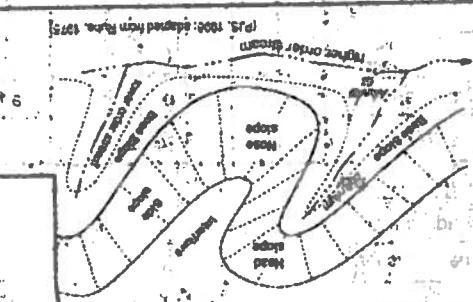
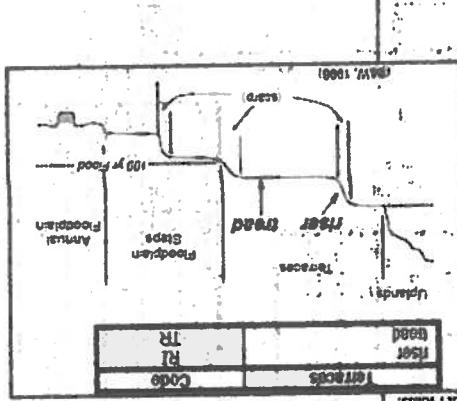
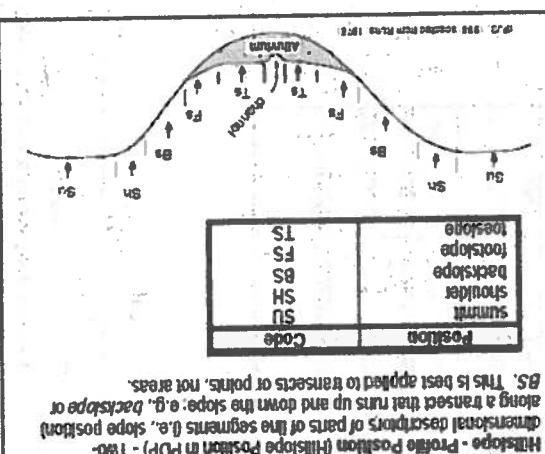
OCCASIONALLY FLOODDED: surfaces water can be present for brief periods during growing season, but not in most years. Often saturated to surface for extended periods during the growing season. Equivalents to Gwater in saturated situations.

PERMANENTLY SEMI-PERMANENTLY SATURATED: Dry less than once per year. Surface water is seldom present, but substrate is to surface for extended periods during the growing season.

UPLANDS: Not a wetland. Very rarely flooded.

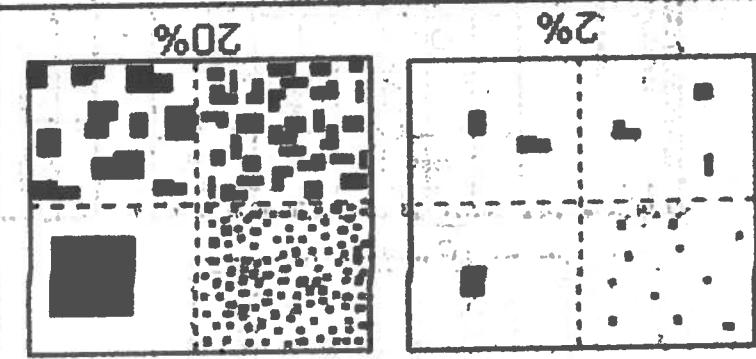
HYDROLOGIC REGIME Modified from Grossmann et al. 1998. (Frequency and duration of flooding.)

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



SS	SS	SS	SS	SS
SS	SS	SS	SS	SS
NS	NS	NS	NS	NS
HS	HS	HS	HS	HS
TF	TF	TF	TF	TF
MASS	MASS	MASS	MASS	MASS
CODES	CODES	CODES	CODES	CODES

Hillside-type - Profile Position (Hillside-type Position in P.P.) - Two-dimensional description of parts of structures or assemblies that are best applied to areas, like terraces, mountains, and flat plates.



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

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): _____

Site ID: PCAP Br 1329

DATE: 07/09/2013

Location:

● AA Center ON OS OE OW

Fill in bubble(s) if plot(s) could not be sampled and flag →

○ Plot 1 ○ Plot 2 ○ 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%)

Buffer Plot 1	Canopy Type: <input checked="" type="radio"/> D <input type="radio"/> E		Absent: <input type="radio"/>	Buffer Plot 2	Canopy Type: <input type="radio"/> D <input checked="" type="radio"/> E		Absent: <input type="radio"/>	Buffer Plot 3	Canopy Type: <input type="radio"/> D <input type="radio"/> E		Absent: <input type="radio"/>
	Leaf Type: <input checked="" type="radio"/> B <input type="radio"/> N	Flag: <input type="radio"/>			Leaf Type: <input type="radio"/> B <input checked="" type="radio"/> N	Flag: <input type="radio"/>			Leaf Type: <input type="radio"/> B <input checked="" type="radio"/> N	Flag: <input type="radio"/>	
Big Trees (>0.3m DBH)	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	Big Trees (>0.3m DBH)	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	Big Trees (>0.3m DBH)	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4
Small Trees (<0.3m DBH)	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	Small Trees (<0.3m DBH)	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	Small Trees (<0.3m DBH)	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4
Woody Shrubs, Saplings (0.5m-5m HIGH)	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	Woody Shrubs, Saplings (0.5m-5m HIGH)	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	Woody Shrubs, Saplings (0.5m-5m HIGH)	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4
Woody Shrubs, Saplings (<0.5m HIGH)	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	Woody Shrubs, Saplings (<0.5m HIGH)	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	Woody Shrubs, Saplings (<0.5m HIGH)	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4
Herbs, Forbs and Grasses	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	Herbs, Forbs and Grasses	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	Herbs, Forbs and Grasses	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4
Bare ground	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	Bare ground	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	Bare ground	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4
Litter, duff	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input checked="" type="radio"/>	Litter, duff	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	Litter, duff	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4
Rock	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	Rock	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	Rock	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4
Water	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	Water	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	Water	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4
Submerged Vegetation	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	Submerged Vegetation	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	Submerged Vegetation	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4

Stressor Presence/Absence - Confirm that a filled data bubble indicates presence and an unfilled bubble indicates absence by filling this bubble. ●

Residential and Urban Stressors				Hydrology Stressors				Agricultural & Rural Stressors							
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	
Road - gravel	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Ditches, Channelization	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Pasture/Hay	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Road - two lane	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Dike/Dam/Road/RR Bed (IMPEDE FLOW)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Range	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Road - four lane	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Water Level Control Structure	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Row Crops	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Parking Lot/Pavement	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Excavation, Dredging	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Fallow Field (RECENT RESTING new crop area)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Golf Course	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Fill/Spill Banks	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Fallow Field (OLD - GRASS, SHRUBS, TREES)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Lawn/Park	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Freshly Deposited Sediment (UNVEGETATED)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Nursery	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Suburban Residential	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Soil Loss/Root Exposure	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Dairy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Urban/Multifamily	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Wall/Riprap	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Orchard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Landfill	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Inlets, Outlets	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Confined Animal Feeding	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Dumping	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Point Source/Pipe DISCHARGE OR STORMWATER	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Rural Residential	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Trash	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Impervious surface input (SATELLITE FLUX)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Gravel Pit	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Irrigation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

Industrial Development Stressors								Habitat/Vegetation Stressors							
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	
Oil Drilling	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Forest Clear Cut	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Herbicide Use	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Gas Wells	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Forest Selective Cut	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Mowing/Shrub Cutting	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Mine (surface)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Tree Plantation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Trails	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Mine (underground)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Tree Canopy Herbivory (INSECT)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Soil Compaction (ANIMAL OR HUMAN)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Military	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Shrub Layer Browsing (MIL. INDOOR/OUT)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Off-road vehicle damage	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Highly Grazed Grasses (OVERALL <10% HIGH)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Soil erosion (FROM WIND, WATER OR GROVERUSH)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Recently Burned Forest Canopy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Recently Burned Grassland (BLACKENED)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

Flag codes: K = No measurement made, U = Suspect measurement, F1,P2, etc. = misc. flags assigned by each field crew.
Explain all flags in comment section on the back of this form

2428168304

1

Bridge Trail 10 meters north of A Cutter

Flag

Comments

Use Decimal Degrees: Miles

Latitude North 41 31.565 Longitude West 081 60278

AA CENTER N3 S3 W3 NEAREST PRACTICABLE LOCATION (Flag and comment below)

Flag

Location of coordinates (choose one):

If Buffer Plot 3 can not be accessed, take the coordinates of the nearest practicable location ALONG THE TRANSVERSE. This is important because all Buffer plots are centered on the Buffer Transverse and the coordinates will indicate the location of the nearest practicable location. If all Buffer plots placed as close to the center of Plot 3 as possible or at the center of the last accessible Buffer Plot flag box, and descriptive notes will be taken and why in the comment section below. The coordinates of the nearest practicable location can be taken if the plot is centered on the Buffer Transverse and the coordinates will indicate the location of the nearest practicable location. Fill in the location of the plot coordinates by filling in the appropriate double

PLT COORDINATES

	1	2	3	Flag	Plot 1	Plot 2	Plot 3	Flag	Plot 1	Plot 2	Plot 3	Flag
EUROPEAN WATERMILLER	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Purple loosestrife	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Purple loosestrife	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Flag
WATER HYACINTH	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Uncommon	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Uncommon	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Flag
YELLOW Floating Heart	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Sparasse knapweed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Multiflora Rose	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Flag
GLAUCIE MILKWEED	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Perennial Pepperweed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Common Milkweed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Flag
ROTEN HEMLOCK	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Great Reed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Himalayan Blackberry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Flag
MILKWEED ALTHIUM	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Red Clover	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Common Milkweed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Flag
WHITE MILKWEED	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Thistle	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Common Milkweed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Flag
ROSE THISTLE	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Common Milkweed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Common Milkweed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Flag
BURSTED THISTLE	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Common Milkweed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Common Milkweed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Flag
COMMON REED	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Common Milkweed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Common Milkweed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Flag
RED CLOVER	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Common Milkweed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Common Milkweed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Flag
BLACKBERRY	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Common Milkweed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Common Milkweed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Flag
WHITE SPURGE	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Common Milkweed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Common Milkweed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Flag
OTHER	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Common Milkweed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Common Milkweed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Flag
OTHER	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Common Milkweed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Common Milkweed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Flag
OTHER	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Common Milkweed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Common Milkweed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Flag
OTHER	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Common Milkweed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Common Milkweed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Flag

• Confirm a third data buffer indicates presence and an unlisted buffer indicates absence of milling in this buffer.

Site ID: CAP-BR-241329 Date: 07/09/2013

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): _____

Site ID: PCAP Br 1329

DATE: 07/09/2013

Location:	Fill in bubble(s) if plot(s) could not be sampled and flag →							
O AA Center	N	O S	O E	O W	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%)

Buffer Plot 1	Canopy Type: <input checked="" type="radio"/> D <input type="radio"/> E		Absent: <input type="radio"/>	Buffer Plot 2	Canopy Type: <input checked="" type="radio"/> D <input type="radio"/> E		Absent: <input type="radio"/>	Buffer Plot 3	Canopy Type: <input checked="" type="radio"/> D <input type="radio"/> E		Absent: <input type="radio"/>
	Leaf Type: <input checked="" type="radio"/> B <input type="radio"/> N	Flag: <input type="radio"/>	Leaf Type: <input checked="" type="radio"/> B <input type="radio"/> N		Leaf Type: <input checked="" type="radio"/> B <input type="radio"/> N	Flag: <input type="radio"/>	Leaf Type: <input checked="" type="radio"/> B <input type="radio"/> N		Leaf Type: <input checked="" type="radio"/> B <input type="radio"/> N	Flag: <input type="radio"/>	
Big Trees (>0.3m DBH)	<input checked="" type="radio"/>	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4
Small Trees (<0.3m DBH)	<input type="radio"/>	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4
Woody Shrubs, Saplings (0.5m-5m HIGH)	<input type="radio"/>	<input type="radio"/> 1	<input checked="" type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4
Woody Shrubs, Saplings (<0.5m HIGH)	<input type="radio"/>	<input type="radio"/> 1	<input checked="" type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4
Herbs, Forbs and Grasses	<input type="radio"/>	<input type="radio"/> 1	<input checked="" type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> 1	<input checked="" type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4
Bare ground	<input type="radio"/>	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4
Litter, duff	<input type="radio"/>	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4
Rock	<input checked="" type="radio"/>	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4
Water	<input checked="" type="radio"/>	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4
Submerged Vegetation	<input checked="" type="radio"/>	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4

Stressor Presence/Absence - Confirm that a filled data bubble indicates presence and an unfilled bubble indicates absence by filling this bubble.

Residential and Urban Stressors				Hydrology Stressors				Agricultural & Rural Stressors							
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	
Road - gravel	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Ditches, Channelization	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Pasture/Hay	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Road - two lane	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Bridge/Dam/Road/RR Bed IMPEDES FLOW	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Range	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Road - four lane	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Water Level Control Structure	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Row Crops	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Parking Lot/Pavement	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Excavation, Dredging	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Fallow Field (RECENT RESTING ROW CROP FIELD)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Golf Course	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Fill/Spill Banks	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Fallow Field (OLD - GRASS, SHRUBS, TREES)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Lawn/Park	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Freshly Deposited Sediment (UNVEGETATED)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Nursery	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Suburban Residential	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Soil Loss/Root Exposure	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Dairy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Urban/Multifamily	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Wall/Riprap	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Orchard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Landfill	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Inlets, Outlets	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Confined Animal Feeding	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Dumping	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Point Source/Pipe (TEMPORARY OR STORMWATER)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Rural Residential	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Trash	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Impervious surface input (SHEET FLOW)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Gravel Pit	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Irrigation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

Industrial Development Stressors				Habitat/Vegetation Stressors											
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	
Oil/Drilling	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Forest Clear Out	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Herbicide Use	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Gas Wells	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Forest Selective Cut	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Mowing/Shrub Cutting	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Mine (surface)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Tree Plantation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Trails	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	
Mine (underground)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Tree Canopy Herbivory (INSECT)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Soil Compaction (ANIMAL OR HUMAN)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Military	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Shrub Layer Browsed (WILD/DOMESTIC)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Offroad vehicle damage	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Highly Grazed Grasses (OVERBROWSED)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Soil erosion (FROM/WIND, WATER, GRAVERUSH)	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Recently Burned Forest Canopy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Recently Burned Grassland (BLACKENED)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

Flag codes: X = 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

2428168304

Bridle Trail 10 meters from B3

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34

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Use Decimal Degrees; NAD83

31809

180

Digitized by srujanika@gmail.com

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四

Location of coordinates (choose one): AACENTRER N3 S3 E3 W3 NEarest practicable location (fig and comment below)

Provide GPS coordinates of the center of the Buffer Plot (S) at the far end of each Buffer. These and other Plot A CENTER numbers in the location of the plot coordinates by filling in the appropriate bubbles.

SELVING 2000-107a

along side in County A. At other times, however, one company may have to compete with another company offering the same product.

PCAPB-1329

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): _____

Site ID: PCAP Br #1329

DATE: 07/09/2013

Location: O AA Center O N O S O E O W

Fill in bubble(s) if plot(s) could not be sampled and flag →
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%)

Buffer Plot 1	Canopy Type:		Absent:	Flag	Buffer Plot 2	Canopy Type:		Absent:	Flag	Buffer Plot 3	Canopy Type:		Absent:	Flag
	D	E				B	N				B	E		
Big Trees (>0.3m DBH)	0	1	0	3	0	0	1	0	3	0	0	1	2	3
Small Trees (<0.3m DBH)	0	1	2	0	0	0	1	2	0	0	0	1	2	3
Woody Shrubs, Saplings (0.5m-5m HIGH)	0	0	1	3	0	0	1	2	0	0	0	1	2	3
Woody Shrubs, Saplings (<0.5m HIGH)	0	1	2	0	0	0	1	2	0	0	0	1	2	3
Herbs, Forbs and Grasses	0	1	2	0	0	0	1	2	0	0	0	1	2	3
Bare ground	0	1	2	0	0	0	1	2	0	0	0	1	2	3
Litter, duff	0	1	2	0	0	0	1	2	0	0	0	1	2	3
Rock	0	1	2	0	0	0	1	2	0	0	0	1	2	3
Water	0	1	2	0	0	0	1	2	0	0	0	1	2	3
Submerged Vegetation	0	1	2	3	4	0	1	2	3	4	0	1	2	3

Stressor Presence/Absence - Confirm that a filled data bubble indicates presence and an unfilled bubble indicates absence by filling this bubble. ☐

Residential and Urban Stressors				Hydrology Stressors				Agricultural & Rural Stressors							
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	
Road - gravel	0	0	0		Ditches, Channelization	0	0	0		Pasture/Hay	0	0	0		
Road - two lane	0	0	0		Dike/Dam/Road/RR Bed (IMPEDE FLOW)	0	0	0		Range	0	0	0		
Road - four lane	0	0	0		Water Level Control Structure	0	0	0		Row Crops	0	0	0		
Parking Lot/Pavement	0	0	1	0	Excavation, Dredging	0	0	0		Fallow Field (RECENT RESTING ROW CROP FIELD)	0	0	0		
Golf Course	0	0	0		Fill/Spoil Banks	0	0	0		Fallow Field (OLD - GRASS, SHRUBS, TREES)	0	0	0		
Lawn/Park	0	0	0		Freshly Deposited Sediment (UNVEGETATED)	0	0	0		Nursery	0	0	0		
Suburban Residential	0	0	0		Soil Loss/Root Exposure	0	0	0		Dairy	0	0	0		
Urban/Multi-family	0	0	0		Wall/Riprap	0	0	0		Orchard	0	0	0		
Landfill	0	0	0		Inlets, Outlets	0	0	0		Confined Animal Feeding	0	0	0		
Dumping	0	0	0		Point Source/Pipe (EFFLUENT OR STORMWATER)	0	0	0		Rural Residential	0	0	0		
Trash	0	0	0		Impervious surface input (GEEFTFLOW)	0	0	0		Gravel Pt	0	0	0		
Other: _____	0	0	0		Other: _____	0	0	0		Irrigation	0	0	0		
Other: _____	0	0	0		Other: _____	0	0	0		Other: _____	0	0	0		

Industrial Development Stressors				Habitat/Vegetation Stressors											
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	
Oil Drilling	0	0	0		Forest Clear Cut	0	0	0		Herbicide Use	0	0	0		
Gas Wells	0	0	0		Forest Selective Cut	0	0	0		Mowing/Shrub Cutting	0	0	0		
Mine (surface)	0	0	0		Tree Plantation	0	0	0		Trails	0	0	0		
Mine (underground)	0	0	0		Tree Canopy Herbivory (INSECT)	0	0	0		Soil Compaction (ANIMAL OR HUMAN)	0	0	0		
Military	0	0	0		Shrub Layer browsed (WILD OR DOMESTIC)	0	0	0		Offroad vehicle damage	0	0	0		
Other: _____	0	0	0		Highly Grazed Grasses (OVERALL <3' HIGH)	0	0	0		Soil erosion (FROM WIND, WATER OR OVERUSE)	0	0	0		
Other: _____	0	0	0		Recently Burned Forest Canopy	0	0	0		Other: _____	0	0	0		
Other: _____	0	0	0		Recently Burned Grassland (BLACKENED)	0	0	0		Other: _____	0	0	0		

Flag codes: K = No measurement made, U = Suspect measurement, F1/F2, etc. = misc. flags assigned by each field crew.
Explain all flags in comment section on the back of this form

2428168304

FORM B-1: BUFFER SAMPLE PLOTS - TARGETED ALIEN SPECIES (Back)

Reviewed by Sotillo

Site ID: PCAP Br 1329

DATE: 07 / 09 / 2013

Confirm a filled data bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble

Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag	Fill bubble if present - Plot	1	2	3	Flag
Eurasian Watermilfoil	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Purple Loosestrife	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Johnson Grass	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Water hyacinth	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Knotweed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Kudzu	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Yellow Floating Heart	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Japanese Knotweed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Multiflora Rose	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Giant Salvinia	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Perennial Pepperweed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Common Buckthorn	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Garlic Mustard	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		Giant Reed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Himalayan Blackberry	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Poison Hemlock	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Cheatgrass	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Tamarisk	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Mile-A-Minute Weed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Reed Canary Grass	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Other:	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Birdsfoot Trefoil	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Common Reed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Other:	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Canada Thistle	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Leafy Spurge	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Other:	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
										Other:	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

PLOT COORDINATES

Provide GPS coordinates at the center of the Buffer Plot (#3) at the far end of each Buffer Transect and for the Buffer Plot at the AA CENTER. Indicate the location of the plot coordinates by filling in the appropriate bubble.

If Buffer Plot 3 can not be accessed, take the coordinates at the nearest practicable location ALONG THE TRANSECT. This is important because all Buffer Plots are centered on the Buffer Transects and the coordinates will indicate the location of the transect. Fill in the "nearest practicable location" bubble, fill in the flag box, and describe where the coordinates were taken and why in the comment section below. The coordinates of the nearest practicable location can be either placed as close to the center of Plot 3 as possible or at the center of the last accessible Buffer Plot.

Location of coordinates (choose one):

Flag

AA CENTER N3 S3 E3 W3 Nearest practicable location (flag and comment below)

Latitude North 41° 31' 54.5" Longitude West 128° 60' 06"

Use Decimal Degrees: NAD83

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (initial): _____

Site ID: PCAP Br 1329

DATE: 07/09/2013

Location:

Fill in bubble(s) if plot(s) could not be sampled and flag →

O AA Center O N O S O E O W

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%)

Buffer Plot 1	Canopy Type: D E		Absent: 0	Buffer Plot 2	Canopy Type: D E		Absent: 0	Buffer Plot 3	Canopy Type: D E		Absent: 0
	Leaf Type: B N	Flag	Leaf Type: B N		Leaf Type: B N	Flag	Leaf Type: B N		Leaf Type: B N	Flag	
Big Trees (>0.3m DBH)	<input checked="" type="radio"/>	<input type="radio"/> 1	<input type="radio"/> 2	<input checked="" type="radio"/>	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input checked="" type="radio"/>	<input type="radio"/> 1	<input type="radio"/> 2
Small Trees (<0.3m DBH)	<input checked="" type="radio"/>	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input checked="" type="radio"/>	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input checked="" type="radio"/>	<input type="radio"/> 1
Woody Shrubs, Saplings (0.5m-5m HIGH)	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/> 2	<input type="radio"/> 3	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input checked="" type="radio"/>	<input type="radio"/> 1
Woody Shrubs, Saplings (<0.5m HIGH)	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/> 2	<input type="radio"/> 3	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input checked="" type="radio"/>	<input type="radio"/> 2
Herbs, Forbs and Grasses	<input checked="" type="radio"/>	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input checked="" type="radio"/>	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input checked="" type="radio"/>	<input type="radio"/> 1
Bare ground	<input checked="" type="radio"/>	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input checked="" type="radio"/>	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input checked="" type="radio"/>	<input type="radio"/> 1
Litter, duff	<input checked="" type="radio"/>	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input checked="" type="radio"/>	<input type="radio"/> 1
Rock	<input checked="" type="radio"/>	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input checked="" type="radio"/>	<input type="radio"/> 1	<input checked="" type="radio"/>	<input type="radio"/> 3	<input type="radio"/> 4	<input checked="" type="radio"/>	<input type="radio"/> 1
Water	<input checked="" type="radio"/>	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input checked="" type="radio"/>	<input type="radio"/> 1	<input type="radio"/> 2	<input checked="" type="radio"/>	<input type="radio"/> 4	<input checked="" type="radio"/>	<input type="radio"/> 1
Submerged Vegetation	<input checked="" type="radio"/>	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input checked="" type="radio"/>	<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input checked="" type="radio"/>	<input type="radio"/> 1

Stressor Presence/Absence - Confirm that a filled data bubble indicates presence and an unfilled bubble indicates absence by filling this bubble. ☐

Residential and Urban Stressors				Hydrology Stressors				Agricultural & Rural Stressors							
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	
Road - gravel	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Ditches, Channelization	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Pasture/Hay	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Road - two lane	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Dike/Dam/Road/RR Bed (IMPERMEABLE)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Range	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Road - four lane	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Water Level Control Structure	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Row Crops	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Parking Lot/Pavement	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Excavation, Dredging	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Fallow Field (RECENTLY RESTING ROW CROP FIELD)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Golf Course	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Fill/Spill Banks	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Fallow Field (OLD - GRASS, SHRUBS, TREES)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Lawn/Park	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Freshly Deposited Sediment (UNGRADED)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Nursery	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Suburban Residential	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Soil Loss/Root Exposure	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Dairy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Urban/Multifamily	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Wall/Riprap	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Orchard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Landfill	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Inlets, Outlets	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Confined Animal Feeding	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Dumping	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Point Source/Pipe (EFFLUENT OR STORMWATER)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Rural Residential	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Trash	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Impervious surface input (STORMFLOW)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Gravel Pit	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Irrigation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

Industrial Development Stressors				Habitat/Vegetation Stressors											
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	
Oil Drilling	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Forest Clear Cut	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Herbicide Use	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Gas Wells	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Forest Selective Cut	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Mowing/Shrub Cutting	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Mine (surface)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Tree Plantation	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Trails	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Mine (underground)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Tree Canopy Herbivory (INSECT)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Soil Compaction (ANIMAL OR HUMAN)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Military	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Shrub Layer Browsed (WILD OR DOMESTIC)	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Off-road vehicle damage	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Highly Grazed Grasses (OVERALL > 75%)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Soil erosion (FROM WIND, WATER, GROUNDBEARING)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Recently Burned Forest Canopy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Recently Burned Grassland (RETURNCENED)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Other: _____	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

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

2428168304

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

System / River

57000 (2.2)

Comments

4.1 314.31 Longitude West 081 60236

Use Decimal Degrees: NAD83

Location of coordinates (changes only): AACENTER N3 S3 E3 W3 Nearest practicable location (tag and comment below)

Coordinate GPS coordinates of the center of the Butler Plot (G3), at the far end of each Butler Transect and for the Butler Plot at the CENTER transects the location of the global coordinates by filling in the appropriate bubble.

ELT GOOD FINATES

Common Name	Botanical Name	Flower Color	Leaf Color	Leaf Shape	Flower Shape	Leaves
Bluebell	Hyacinthoides non-scripta	Blue	Dark Green	Elliptical	Star-shaped	Smooth
Camassia	Camassia esculenta	White	Dark Green	Elliptical	Star-shaped	Smooth
Crocus	Crocus sativus	Red	Dark Green	Elliptical	Star-shaped	Smooth
Daffodil	Narcissus pseudonarcissus	Yellow	Dark Green	Elliptical	Star-shaped	Smooth
Forget-me-not	Myosotis sylvatica	Blue	Dark Green	Elliptical	Star-shaped	Smooth
Globe Amaranth	Gomphrena globosa	Pink	Dark Green	Elliptical	Star-shaped	Smooth
Hollyhock	Alcea rosea	Red	Dark Green	Elliptical	Star-shaped	Smooth
Marigold	Tagetes patula	Orange	Dark Green	Elliptical	Star-shaped	Smooth
Poppy	Papaver rhoeas	Red	Dark Green	Elliptical	Star-shaped	Smooth
Ranunculus	Ranunculus	Yellow	Dark Green	Elliptical	Star-shaped	Smooth
Red Poppy	Papaver rhoeas	Red	Dark Green	Elliptical	Star-shaped	Smooth
Shasta Daisy	Anemone x hybrida	White	Dark Green	Elliptical	Star-shaped	Smooth
Stock	Malva sylvestris	Red	Dark Green	Elliptical	Star-shaped	Smooth
Tulip	Tulipa	Yellow	Dark Green	Elliptical	Star-shaped	Smooth
Verbena	Verbena bonariensis	Pink	Dark Green	Elliptical	Star-shaped	Smooth
Wistaria	Wistaria sinensis	Blue	Dark Green	Elliptical	Star-shaped	Smooth

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PCAP B/1329 DATE 07/09/2013

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): _____

Site ID: PCA9Br1329

DATE: 07/09/2013

Location:	Fill in bubble(s) if plot(s) could not be sampled and flag →							
<input type="radio"/> AA Center <input type="radio"/> N <input type="radio"/> S <input type="radio"/> O <input type="radio"/> E <input checked="" type="radio"/> W	<input type="radio"/> Plot 1		<input type="radio"/> Plot 2		<input type="radio"/> 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%)

Buffer Plot 1	Canopy Type: <input type="radio"/> D <input checked="" type="radio"/> E		Absent: <input type="radio"/>	Buffer Plot 2	Canopy Type: <input type="radio"/> D <input checked="" type="radio"/> E		Absent: <input type="radio"/>	Buffer Plot 3	Canopy Type: <input type="radio"/> D <input checked="" type="radio"/> E		Absent: <input type="radio"/>
	Leaf Type: <input type="radio"/> B <input checked="" type="radio"/> N	Flag	Leaf Type: <input type="radio"/> B <input checked="" type="radio"/> N		Leaf Type: <input type="radio"/> B <input checked="" type="radio"/> N	Flag	Leaf Type: <input type="radio"/> B <input checked="" type="radio"/> N		Leaf Type: <input type="radio"/> B <input checked="" type="radio"/> N	Flag	
Big Trees (>0.3m DBH)	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Small Trees (<0.3m DBH)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Woody Shrubs, Saplings (0.5m-5m HIGH)	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Woody Shrubs, Saplings (<0.5m HIGH)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Herbs, Forbs and Grasses	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Bare ground	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Litter, duff	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Rock	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Water	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Submerged Vegetation	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Stressor Presence/Absence - Confirm that a filled data bubble indicates presence and an unfilled bubble indicates absence by filling this bubble.

Residential and Urban Stressors				Hydrology Stressors				Agricultural & Rural Stressors						
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
Road - gravel	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Ditches, Channelization	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Pasture/Hay	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
Road - two lane	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Dike/Dam/Road/RR Bed <small>(IMPEDE FLOW)</small>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Range	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
Road - four lane	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Water Level Control Structure	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Row Crops	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
Parking Lot/Pavement	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Excavation, Dredging	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Fallow Field (RECENTLY RESTING ROW CROP FIELD)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
Golf Course	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Fill/Soil Banks	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Fallow Field (OLD - GRASS, SHRUB, TREES)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
Lawn/Park	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Freshly Deposited Sediment <small>(UNVEGETATED)</small>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Nursery	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
Suburban Residential	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Soil Loss/Root Exposure	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Dairy	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
Urban/Multifamily	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Wall/Riprap	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Orchard	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
Landfill	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Inlets, Outlets	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Confined Animal Feeding	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
Dumping	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Point Source/Pipe <small>(SOLID OR LIQUID/WATER)</small>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Rural Residential	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
Trash	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Impervious surface input <small>(SHEARFLOW)</small>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Gravel Pit	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
Other: _____	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Other: _____	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Irrigation	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
Other: _____	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Other: _____	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Other: _____	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	

Industrial Development Stressors				Habitat/Vegetation Stressors										
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
Oil Drilling	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Forest Clear Cut	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Herbicide Use	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
Gas Wells	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Forest Selective Cut	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Mowing/Shrub Cutting	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
Mine (surface)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Tree Plantation	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Trails	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
Mine (underground)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Tree Canopy Herbivory <small>(INSECT)</small>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Soil Compaction <small>(ANIMAL OR HUMAN)</small>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
Military	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Shrub Layer Browsed <small>(WILDLIFE DOMESTIC)</small>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		Offroad vehicle damage	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
Other: _____	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Highly Grazed Grasses <small>(OVERALL < 5% HIGH)</small>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Soil erosion (FROM WIND, WATER OR OVERUSE)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
Other: _____	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Recently Burned Forest Canopy	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Other: _____	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
Other: _____	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Recently Burned Grassland <small>(BLOCKENSED)</small>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		Other: _____	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	

Flag codes: K = No measurement made, U = Suspect measurement, P1,P2, etc. = misc. flags assigned by each field crew.
Explain all flags in comment section on the back of this form

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