

CLEVELAND METROPARKS Plant Community Assessment Program: Quality Control Form
 Project Label: PCAP Plot No.: 3444 Date Sampled: 8/8/2012 Lead: T. J. Schuck

 Cleveland Metroparks

Parking/Access outside of Park Boundaries: Y N Comment required if item answer is NO

Field journals completed Y N If yes, write details in Comments section below

Site sketch made on 1:3000 map? Y N

Check cover page X-axis Bearing of plot recorded Y N

GPS coords. Recorded Y N

North direction recorded Y N

Photographs taken? Y N

Plot No., Date agreement on all pages? Y N

Header data completed all pages? Y N

Cover classes recorded in all intensive modules Y N

Browse Level By Species Y N

Woody stem quality control check Y N

Invasive plant quality control check Y N

Ash trees mapped Y N

Cover by Strata? (confirm cover type) Y N

Soil samples collected with matching plot # Y N

Vouchers labeled on datasheet with initials and number Y N

Vouchers labeled on collection bag Y N

Pink flags removed Y N

Data sheet QA before leaving site? Y N

Common equipment returned to tub. Y N

Data sheets scanned? Y N

Final data sheets scanned? Y N

Buffer widths measured? Y N

Web Soil Survey
 SRE-03
 B2-B3

Voucher Location
 Refrigerator Y N

(# vouchers collected) Y N Enter number to left

Press (#) Y N

Drier Y N

Identified Y N

Mounted Y N

Thrown away Y N

GRTS point verification: Is plot sampleable?
 Yes No
 Original GRTS point is sampleable
 Point falls in water (i.e. river, lake)
 Managed mowed area (i.e. golf course, picnic area, right-of-way)
 Paved area (i.e. parking lot, road)
 Unsafe to sample (i.e. steep slope)
 Other

Additional Comments:

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

Cleveland Metroparks
Page 1 of 2

GENERAL INFORMATION	
Project Label:	PCAP
Project Name:	01 Be 2012
Plot Name:	Silver Sycamores
Plot No.:	3444

<input type="checkbox"/> Level 4 (no nested corners sampled)
<input checked="" type="checkbox"/> Level 5 (nested corners sampled)
Date (mm/dd/yyyy): 8/8/2012
End date (if > 1 day): / /

Party	Role**
S. Eisenbach	Plot leader
S. Catella	Asst
K. Lewis	Asst

** Roles: Co-leader, Asst., Guide, Owner, Taxonomist, etc.

PLOT NOT SAMPLED:	
<input type="checkbox"/> Perm. water	<input type="checkbox"/> Other
<input type="checkbox"/> Paved	<input type="checkbox"/> Slope
<input type="checkbox"/> Safety	

SAMPLING QUALITY*	
Effort Level:	subjective evaluation of how much effort put into sampling. Hurred plots may still provide good data.
<input checked="" type="checkbox"/> Very thorough	
<input type="checkbox"/> Accurate	
<input type="checkbox"/> Hurred	

TAXONOMIC ACCURACY			
high	modera.	low	not smpl
vascul.	<input checked="" type="checkbox"/>		n/a
bryo		<input checked="" type="checkbox"/>	
lichen			<input checked="" type="checkbox"/>

Authority:	G&C
Pub Date:	1998

Minimum required fields in Bold and Underlined

LOCATION	
State:	OH
County:	Cuyahoga
Quadrangle:	
Local Place Names:	Bridle Trail
Landowner:	Cm

Data Confidentiality:	
Check one:	<input checked="" type="checkbox"/> Public data <input type="checkbox"/> Private Data
<input type="checkbox"/> Fuzz 100m	<input type="checkbox"/> Fuzz 250m
<input type="checkbox"/> Fuzz 500m	

Reason:	
If data not public why?	

Source of coordinates	
<input type="checkbox"/> MAP	<input checked="" type="checkbox"/> GPS

Coordinate system:	
<input checked="" type="checkbox"/> Lat/Long	<input type="checkbox"/> UTM
<input type="checkbox"/> StatePlane	<input type="checkbox"/> deg
<input type="checkbox"/> deg min	<input type="checkbox"/> deg sec
<input type="checkbox"/> Other (specify)	<input type="checkbox"/> m
	<input type="checkbox"/> ft

<input checked="" type="checkbox"/> NAD83/WGS84	<input type="checkbox"/> NAD27
---	--------------------------------

GPS location in plot x=0 to 5, y=-1,0,+1:

x = 0 y = 0 (base of plot x=0, y=0)

Latitude: 41.37965

Longitude: 81.56512

Coord. Accuracy: 0 in 0 ft + 2.3

GPS File Name: 3444A

Plot size for cover data: 0.05 (hectares)

X-axis Bearing of plot: 90°

Depth: (1-5): 4

Intensive modules: 2,3,8,9,1,2,3,4 (EDIT IF MODIFIED)

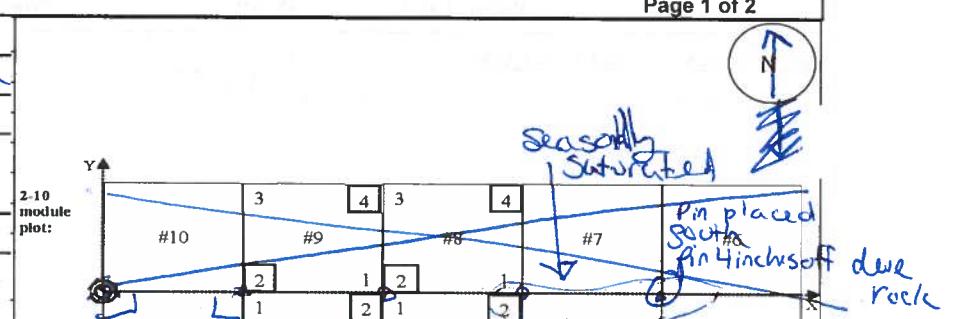
Camera No.: 2

Photo Nos.: C2-2069

Plot placement: GRTS Representative

Random Stratified Random Transect component

Systematic (grid) Capture specific feature Other



NOTES: Include Layout (any unusual shape details), Location (directions and landscape content), Rationale (why here), and Veg Characterization (description of community, dominants, strata, BROWSE). Additional notes in space on back.

LAYOUT: 1 x 5 on a terraced floodplain

LOCATION: PARK AT LOT OFF OVERLOOK DR. just

③ of Gorge Pkwy. Hike N into gorge to plot -

MUST CROSS TINKER'S CREEK OR PARK AT PINE AREA + TUNE

Rationale: GRTS lands on terraced floodplain forest.

Terrace only wide enough for 10m modules.

1x5 plot ran on an E transect.

Veg. Characteristics: Tree layer dominated by

Platanus occidentalis, Ulmus sp., Acer rubrum.

Shrub layer includes Lindera benzoin and

Crataegus sp. Abundant herb layer.

④ Bootleg trail through plot

Note: May need knee boots for stream crossing.

OVER

Switched intensive corner 4 to corner 1 in mod 1 because of bootleg-

Project Label: PCAP

Project Name: 01B2012

Plot No.: 3444

Page 2 of 2

MODIFIED NATURESERVE CLASS*

CODE (on separate form):

LO3

Fit= Good Conf= High

COMMUNITY NAME:

Sycamore Woodland

HOMOGENEITY

- Homogeneous Compositional trend across the plot
- Conspicuous inclusions Irregular/pattern mosaic

DISTURBANCES

type*	severity**	yrs ago	% of plot	description
Human	M	5	100	Trash, Bootleg
Natural				
Fire				
Cut				
Animal	H	0	100	Deer Browse
Other				

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

Current Land Use: Park

Former Land Use: UNK

(by default unless plot is a wetland)

HYDROLOGIC REGIME***SALINITY***

- Saltwater
- Brackish
- Fresh
- Upland (n/a)

- | | |
|---|---|
| <input type="checkbox"/> Upland (seldom flooded) | <input type="checkbox"/> Intermittently flooded |
| <input type="checkbox"/> Intermittently/seasonally saturated (seldom flooded) | <input type="checkbox"/> Semipermanently flooded |
| <input type="checkbox"/> Permanently/Semipermanent. saturated (dry <1/yr, seldom flooded) | <input type="checkbox"/> Permanently flooded |
| <input type="checkbox"/> Occasionally flooded (<1/yr) | <input type="checkbox"/> Tidal/Seiche flooded daily |
| <input type="checkbox"/> Temporarily flooded | <input type="checkbox"/> Tidal/Seiche flooded monthly |
| | <input type="checkbox"/> Tidal/Seiche flooded irregular (e.g. wind, storms) |
| | <input type="checkbox"/> Unknown |

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

Plot was on a terrace of Tinker's Creek. Canopy was dominated by Sycamore, Sugar Maples, Basswood, mixed w/ a couple Beeches, Red Maples, Buck maples and Black locust. The shrub layer was spice bush w/ Fraxinus saplings. The herb layer was a diverse mix of herbs including sedges, bottlebrush grass, Asters, Solidages, and poison ivy. Browse was evident on the Spice bush and on trunk sprouts. There was some trash in the plot and a bootleg in mods 1 and 2 that follows along the river. There is a lower seasonally saturated area on the northern portion of the plot. Plants all looking droopy.

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

Project Label:	PCAP	Project name:	01B2012	Plot no.:	3444	Page 1 of 4
Total modules:	5	Intensive modules:	4	Plot configuration:	1x5	Plot area (ha): 0.05

Cleveland Metroparks

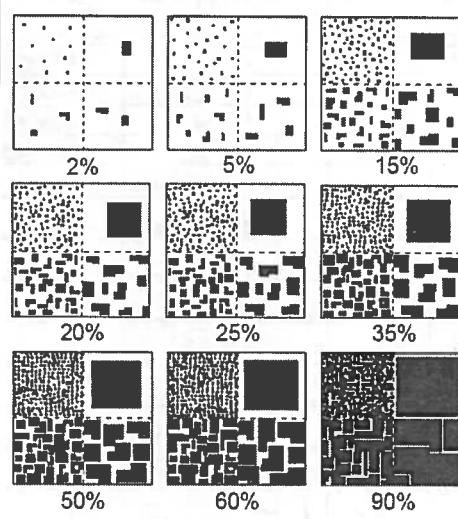
Br = Browse Level. Use cover classes to describe amount of browse per species over entire plot

Strata - Cov. entire plot

T	S	H	(F)	(A)	Br	Species	C	Voucher #	Estimate for each intensive module:																		
									mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	mod	corner	
depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	cov	depth	
8						Acer saccharum			1 1	1	2	2	4	2	2	3	4	1	3	2	4	4	4	2	R	R	
7	2					Platanus occidentalis			1 5		1 0		1 0		1 0		1 0		1 0		1 0		1 0				
2	5					Fraxinus sp. (seedling)			1 0		1 6		1 0		1 0		1 0		1 0		1 0		1 0				
2						Carex grayii			1 5		1 2		1 2		1 2		1 2		1 2		1 4		1 4				
1						Carex sp.			1 7		1 8		1 8		1 6		1 6		1 7		1 7		1 7				
7						Lindera benzoin			8		3 6 4		3 7 4		4 7 3		4 7 3		4 8 4		4 8 4		4 8 4				
2						Galium sp.			2		3 2		2 2		2 2		2 2		2 2		2 2		2 2		2 2		
2						Sanicula gregarin			3		3 2		2 2 3		3 1		3 1		3 1		3 2		3 2		3 2		
2						Prunus serotina			6		3 2		3 2		3 2		3 2		3 2		3 2		3 2		3 2		
2						Viola sp.			7		3 2		1 2		4 2 1		4 2 1		4 2 1		4 2 1		4 2 1		4 2 1		
2						Circarea lutetiana			1		4 2 3		2 2		4 2 2		4 2 2		4 2 2		4 2 2		4 2 2		4 2 2		
2						Eupatorium rugosum			8		3 2		3 2 2		2 2		2 2		2 2		2 2		2 2		2 2		
3						Aster lateriflorus			8		3 2		3 2		2 2 4		2 2 4		2 2 4		2 2 4		2 2 4		2 2 4		
2						Acer sp. (seedlings)			2		3 2		1 2		1 2		1 2		1 2		1 2		1 2		1 2		
1						Cryptotaenia canadensis			1		3 1		1		1		1		1		1		1		1		
3						Carex sp. (no repts)			3		2 2 2		3 2 2		2 2 4		2 2 4		2 2 4		2 2 4		2 2 4		2 2 4		
2						Geranium maculatum			2		2 2 3		1 2		2 2		2 2		2 2		2 2		2 2		2 2		
3						Elymus hystrix			2		2 2 2		1 2		2 2 1		2 2 1		2 2 1		2 2 1		2 2 1		2 2 1		
2						Hosperis matronalis			2		2 2		1 2		2 2		2 2		2 2		2 2		2 2		2 2		
2						Moss sp.			2		2 2		3 2		2 2		2 2		2 2		2 2		2 2		2 2		
1						Sedum ternatum			1		2 1		1		1		1		1		1		1		1		
2						Quercus sp. (seedling)			2		2 2		1 2		1 2		1 2		1 2		1 2		1 2		1 2		
3						Polygonia flexuosa			9		2 3 1		3 2		2 2 2		2 2 2		2 2 2		2 2 2		2 2 2		2 2 2		
2						Ulmus sp. (seedling)			8		2 1		3 2		2 2 1		2 2 1		2 2 1		2 2 1		2 2 1		2 2 1		
5						Carya cordiformis			5		2 1		1 1		2 2		2 2		2 2		2 2		2 2		2 2		

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 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%	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

[BROWSE RATING NARRATIVE DESCRIPTION](#)

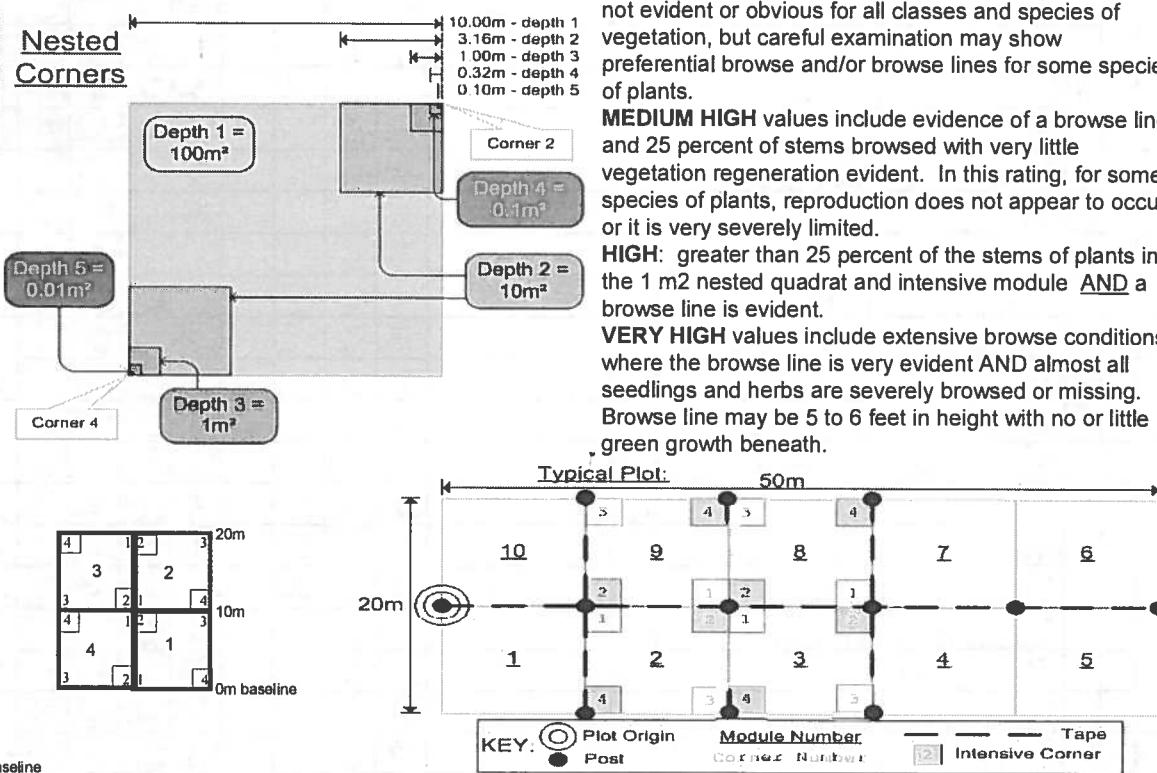
LOW OR NONE: there is no measurable browse line **AND** there are very few or no plants 1-m nested quadrat and intensive module. In general, low values relate to less than 10 percent, by numbers of stems browsed. **MEDIUM LOW** values include evidence of browse at about 10 percent of the stems with no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

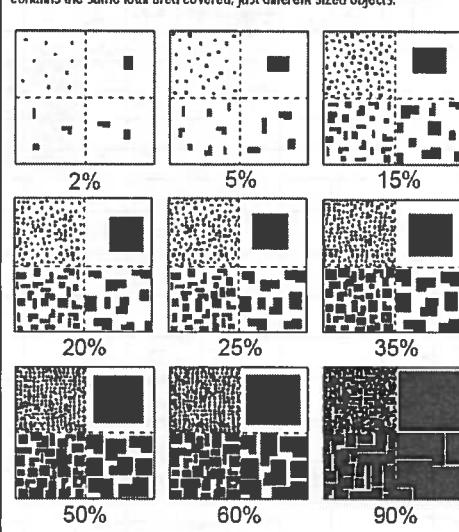
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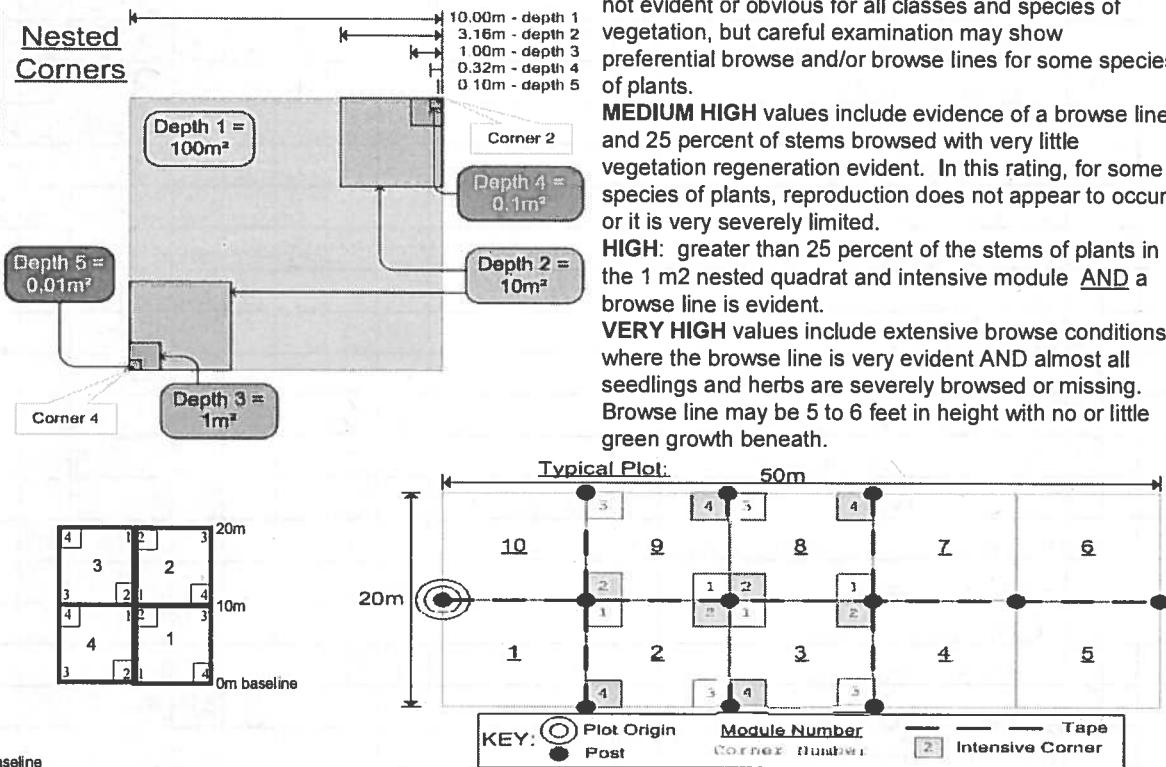
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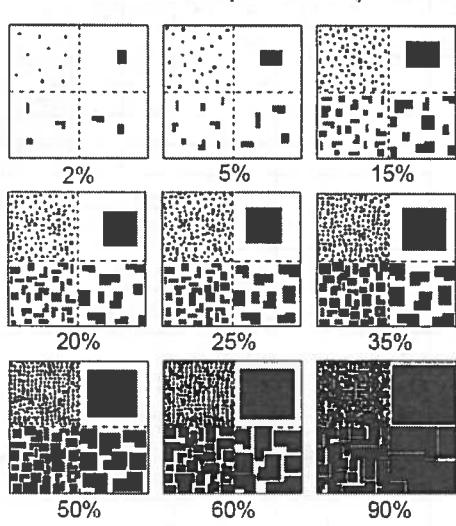
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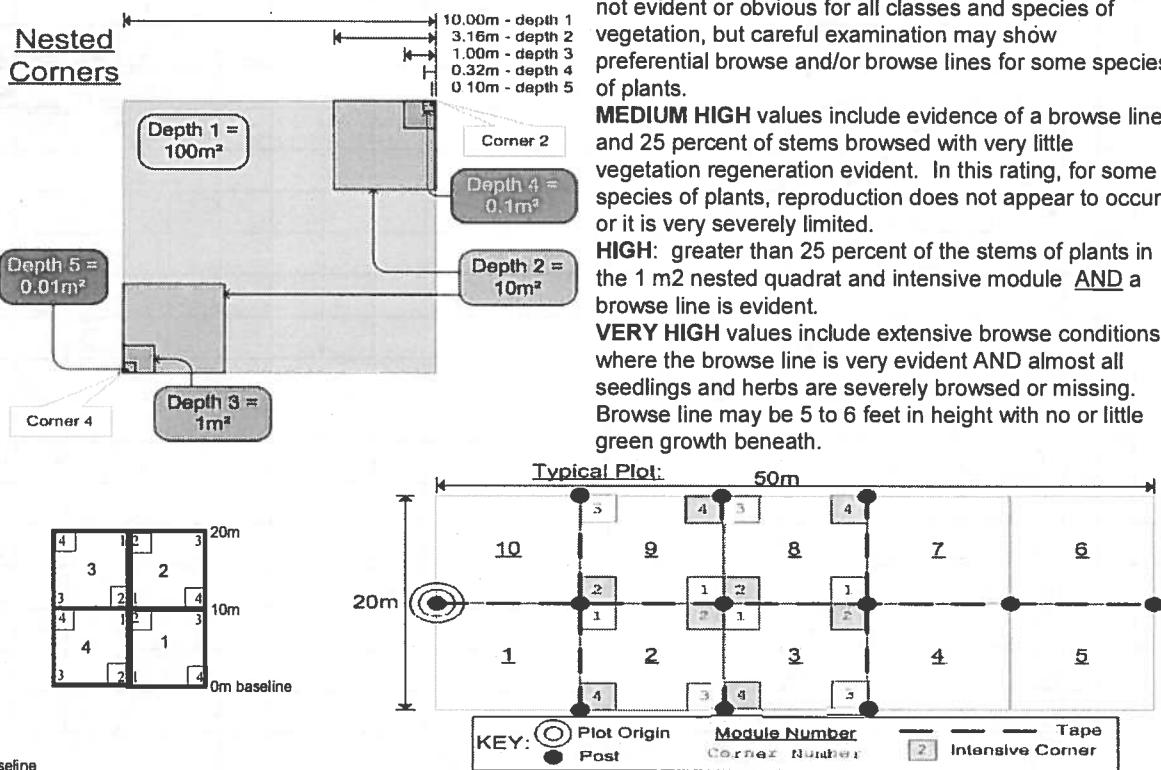
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HIGH: greater than 25 percent of the stems of plants in the 1 m² nested quadrat and intensive module AND a browse line is evident.

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

CLEVELAND METROPARKS Plant Community Assess

Project name: OIBe2017 Plot no.: 3444

Page 4 of 4

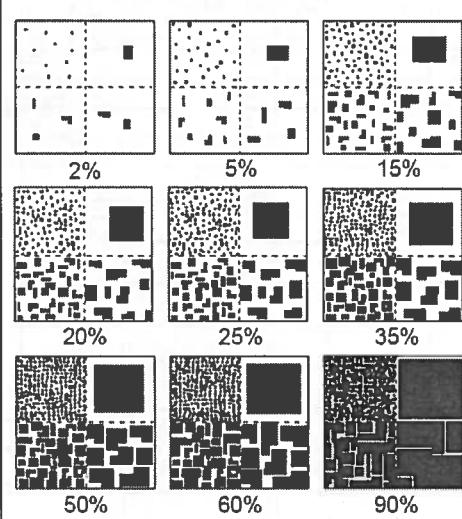
Total modules:

Br = Browse Level. Use cover classes to describe amount of browse per species over entire plot.

SILVERMAN

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 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%	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

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.

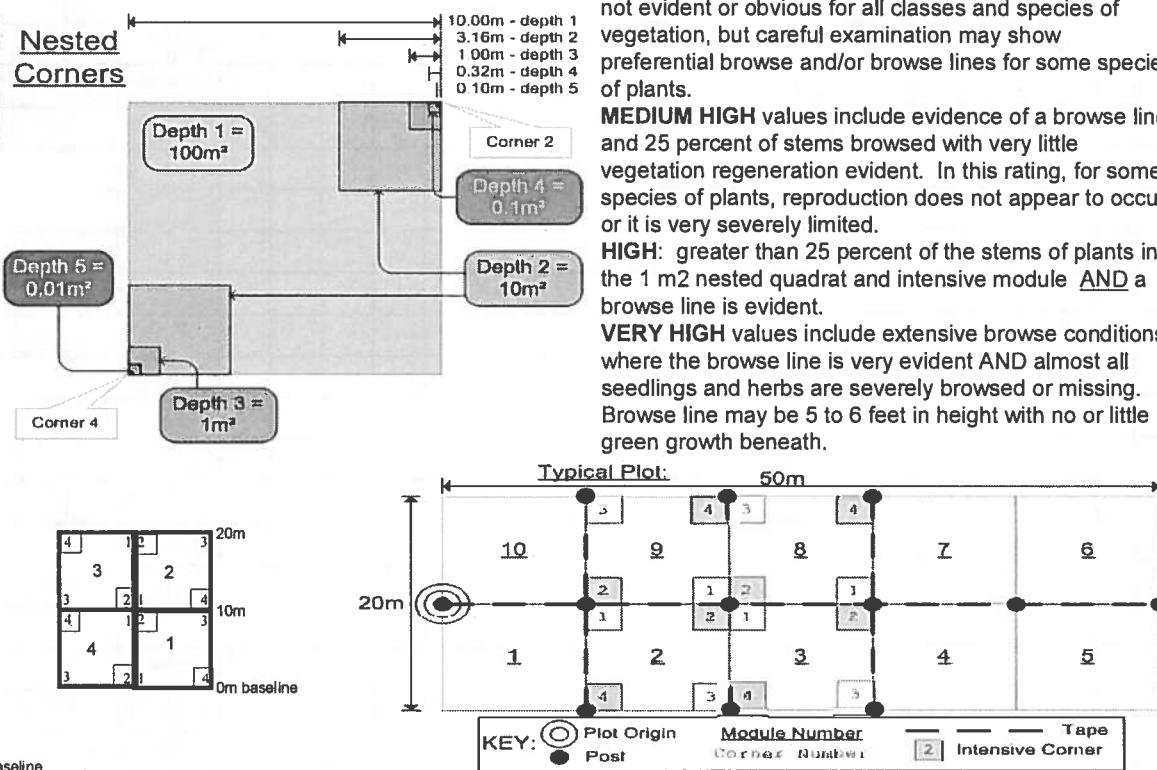
MEDIUM LOW values include evidence of browse at about 10 percent of the stems with no significant impact to plant reproduction evident. In this rating, plants are browsed but preferential species are observed to be reproducing in numbers that appear normal or near-normal in comparison to low browse areas. 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 Natural Woody Stem Data Sheet

Project Label: PCAP

Project Name: 01 Be 2012

Plot No.: 3444

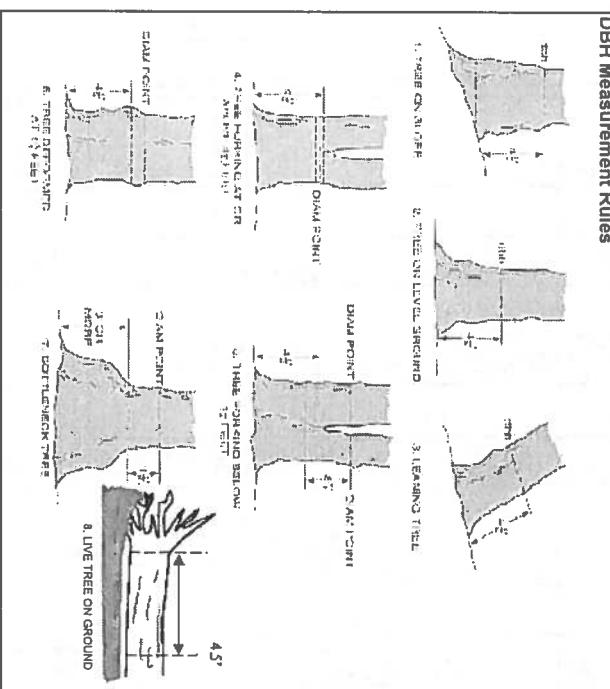
Page: 1 of 3



Explain subsample (additional room on back):

mod #	species	c	voucher#	# stems 0-1.4m browsed	% sub or super sample	# shrub clumps	size class (cm) woody stems >1.4m										
							1 0-<1	2 1-<2.5	3 2.5-<5	4 5-<10	5 10 - <15	6 15 - <20	7 20 - <25	8 25 - <30	9 30 - <35	10 35 - <40	11 >40 (record each tree)
✓1	Ulmus americana																
✓1	Lindera benzoin			☒1:		☒											
✓1	Platanus occidentalis																51.6, 56.1
✓1	Acer saccharum																
✓1	Fraxinus pennsylvanica																
✓1	Ostrya virginiana																
✓1	Fraxinus sp.			1:													
✓1	Fagus grandifolia			•													
✓1	Acer rubrum																
✓2	Lindera benzoin			☒1:		☒1:											
✓2	Acer saccharum																
✓2	Platanus occidentalis																40.1, 64.9
✓2	Toxicodendron radicans						☒	•									
✓2	Parthenocissus quinquefolia						•										
✓2	Fagus grandifolia						•										
✓2	Fraxinus sp.			☒													
✓2	Prunus serotina						•										
✓2	Smilax tamnoides						•										
✓2	Crataegus sp.						•										
✓3	Lindera benzoin			☒1:		☒											
✓3	Tilia americana								•								
✓3	Toxicodendron radicans							•									
✓3	Platanus occidentalis																63.6
✓3	Rosa multiflora					•		•									

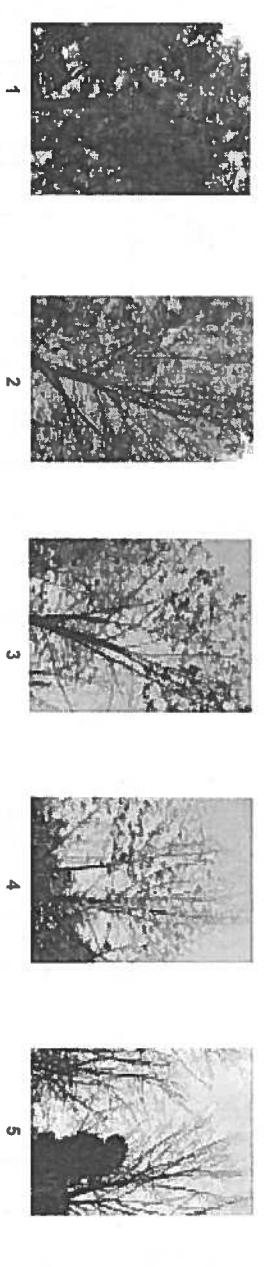
DBH Measurement Rules



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.

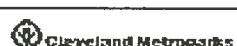
CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP

Project Name: 01 Be 2012

Plot No.: 3444

Page: 2 of 3

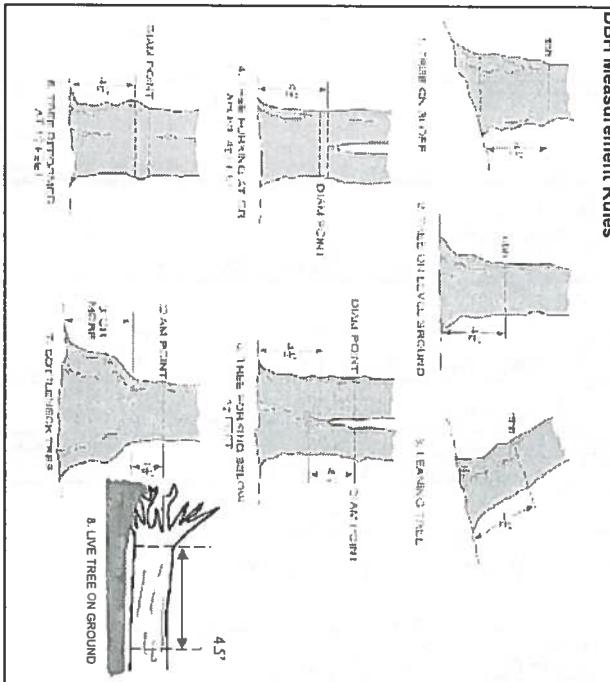


Explain subsample (additional room on back):

mod #	species	c	voucher#	# stems 0-1.4m browsed	% sub or super sample	# shrub clumps	size class (cm) woody stems >1.4m											
							1 0-<1	2 1-<2.5	3 2.5-<5	4 5-<10	5 10 - <15	6 15 - <20	7 20 - <25	8 25 - <30	9 30 - <35	10 35 - <40	11 >40 (record each tree)	
✓ 3	Acer rubrum										9							
✓ 3	Acer saccharum																	
✓ 3	Fagus grandifolia			..									9					
✓ 3	Fraxinus sp.			..														
✓ 3	Parthenocissus quinquefolia			..														
✓ 4	Lindera benzoin			☒::		□												
✓ 4	Berberis thunbergii					:												
✓ 4	Platanus occidentalis													6				50.5
✓ 4	Tilia americana											1						
✓ 4	Rosa multiflora			..														
✓ 4	Ligustrum vulgare														
✓ 4	Fraxinus sp.			..														
✓ 4	Crataegus sp.			..														
✓ 4	Fagus grandifolia			..														
✓ 5	Fraxinus sp.			☒														
✓ 5	Lindera benzoin			☒☒		☒☒												
✓ 5	Ostrya virginiana			..														
✓ 5	Multifl Rosa multiflora														
✓ 5	Carpinus caroliniana			..														
✓ 5	Berberis thunbergii					..												
✓ 5	Ulmus americana					..					1							
✓ 5	Lindera benzoin					☒												
✓ 5	Acer rubrum																	
✓ 5	Parthenocissus quinquefolia																	

Compared to 9/17/12

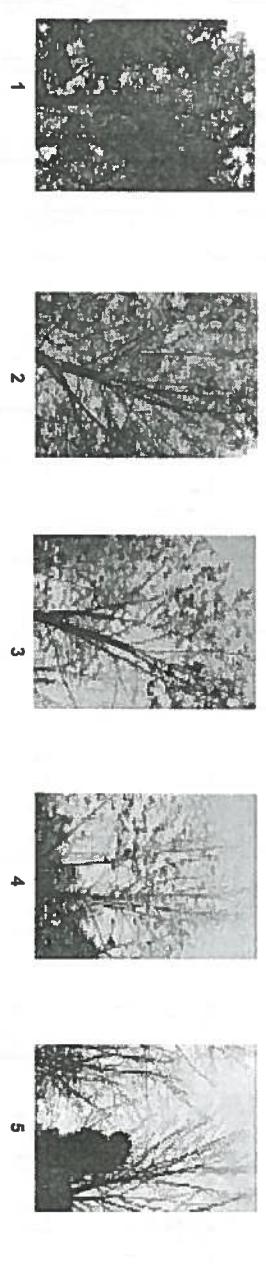
DBH Measurement Rules



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

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



A



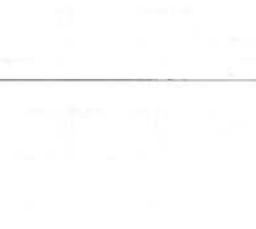
B



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 Be 2012

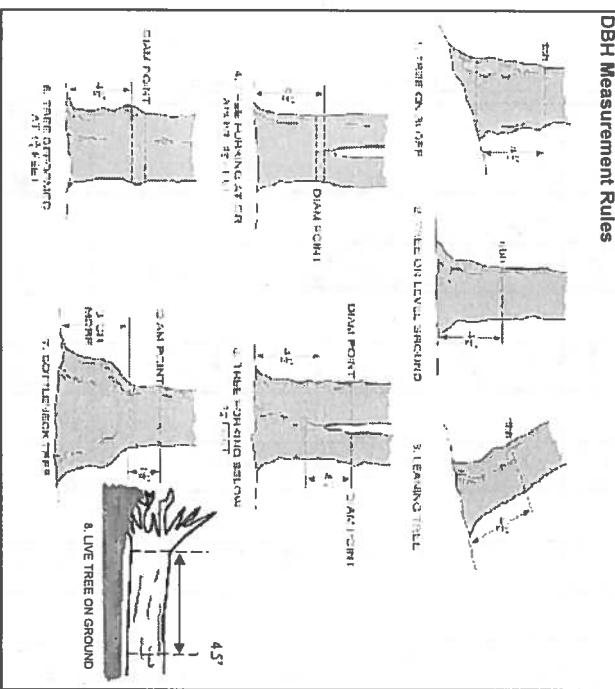
Plot No.: 3444

Page: 3

 Cleveland Metroparks
3

Explain subsample (additional room on back):

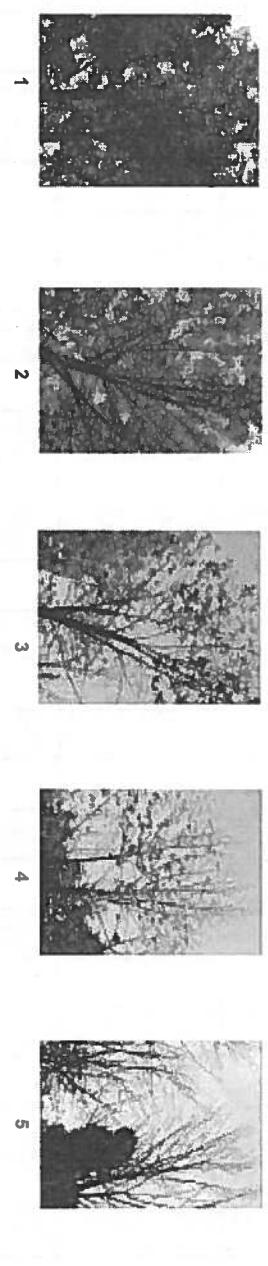
DBH Measurement Rules



Woody Stem Deer Browse

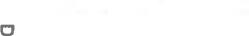
Record the number of stems/plants between 0.5-1.0 meters tall that exhibit evidence of this years deer browse.

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 die naturally and are not considered.
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5. Dead canopy: No leaves remain in the canopy portion of the tree. It still counts as a 5 even if there are epicormic sprouts below the canopy (lowest branch) on the trunk.



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- A: All main branches contain fine twigs (newly dead).
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- D: Stem still standing and tertiary main branches present.
- E: Central stem still standing.

CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey



CLEVELAND METROPARKS

Tier 1: Early detection/ Rapid response				Presence	GPS	# of Plants	Comments
NE	SE	SW	NW				
<i>Microstegium vimineum</i>				Japanese Stiltgrass			X: yes
<i>Ranunculus ficaria</i>				Lesser Celandine			
<i>Cynanchum louiseae</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		# of Plants	Comments
NE	SE	SW	NW				
<i>Acer platanoides</i>				Norway Maple			
<i>Ailanthus altissima</i>				Tree of Heaven			
<i>Lonicera japonica</i>	(vine)			Japanese Honeysuckle			
<i>Lythrum salicaria</i>	(wetland)			Purple Loosestrife			
<i>Aegopodium podagraria</i>	(G-cover)			Bishop's Goutweed			
<i>Celastrus orbiculatus</i>	(vine)			Asian Bittersweet			
<i>Torilis sp.</i>				Hedgeparsley	1		
<i>Conium maculatum</i>				Poison Hemlock			
<i>Rhamnus cathartica</i>				Common Buckthorn	(shrub)	1	
<i>Berberis thunbergii</i>				Japanese Barberry	(shrub)	2	
<i>Alnus glutinosa</i>				European Alder		1	
<i>Dipsacus laciniatus</i>				Cut-leaf Teasel			
<i>Elaeagnus umbellata</i>				Autumn Olive	(shrub)	1	
<i>Lonicera maackii</i>				Amur Honeysuckle	(shrub)		
<i>Euonymus fortunei</i>				Wintercreeper			
Tier 3: Presence is of Interest				# of Plants		# of Plants	Comments
NE	SE	SW	NW				
<i>Convallaria majalis</i>	(G-cover)			Lily of the Valley		1:	1-10
<i>Coronilla varia</i>	(G-cover)			Crown Vetch	1	2:	11-50.
<i>Eleutherococcus pentaphyllus</i>				Five-leaf Aralia	(shrub)	3:	51-100
<i>Pachysandra terminalis</i>	(G-cover)			Japanese Pachysandra		4:	101-1,000
<i>Philadelphus coronarius</i>				Mock Orange	(shrub)	5:	>1,000
<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 var. opulus</i>				European Cranberry	(shrub)	1	
<i>Viburnum plicatum</i>				Doublefile Viburnum	(shrub)		
Tier 4: Widespread and abundant				Presence		# of Plants	Comments
NE	SE	SW	NW				
<i>Alliaria petiolata</i>				Garlic Mustard	1	1	X: yes
<i>Ligustrum vulgare</i>				Common Privet	(shrub)	1	2
<i>L. morrowii, L. tatarica</i>				Bush Honeysuckles	(shrub)	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)	1	5-10-24-12
<i>Rosa multiflora</i>				Multiflora Rose	(shrub)	2	2
<i>Typha angustifolia, 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		1	
<i>Vinca minor</i>	(G-cover)			Periwinkle		1	

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

CLEVELAND METROPARKS Emerald Ash Borer - Fraxinus Sheet

Project Label: PCAP

Project Name: 01 Bc 2012

INTENSIVE MODULES ONLY

TREES \geq 10CM ONLY

Plot No.: 344

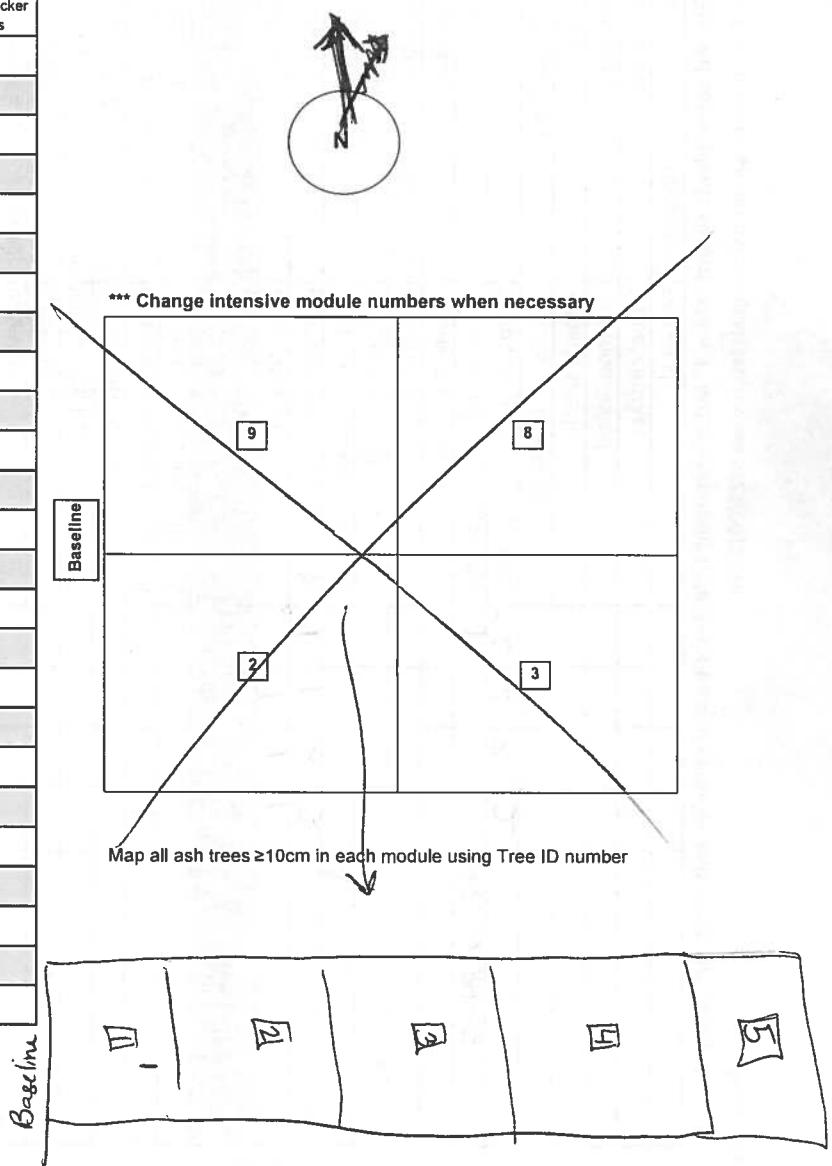
Date: 08-08-2012

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Page: 1 of 2

Module	Tree ID.	Species	Dead c	Voucher #	DBH (cm)	Ht @ DBH	ASH Only				
							Ash condition	*Dead condition	# Exit holes	Epicormic present	Woodpecker holes
1	1	Fraxinus pennsylvanica			15.3		1	0	0	0	
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										
	13										
	14										
	15										
	16										
	17										
	18										
	19										
	20										
	21										
	22										
	23										
	24										
	25										

* If Ash Condition scores 5 (dead) provide breakup score (A-E)
 Count EAB exit holes $1.25m \geq x \geq 1.5m$
 Woodpecker and epicormic marked present (1) or absent (0)



COVER BY STRATA	
STRATUM	GENERAL FORM
Tree (generally >5 m)	Tree (overstory), very tall shrubs*, liana, epiphyte
Shrub (generally 0.5 to 5 m)	Tree (sapling), shrub, liana, epiphyte
Herb (Field)	Herb, dwarf-shrub**, tree (seedling***)
Floating	Floating
Aquatic (submerged)	Submerged
*Very tall shrubs are sometimes included in the tree stratum	
**Can also include seedlings of shrubs, i.e. all shrubs <0.5m	
***Tree seedlings are often defined as up to 1.4 m height or as <2.5 cm DBH in which case they would span the herb and shrub layers.	

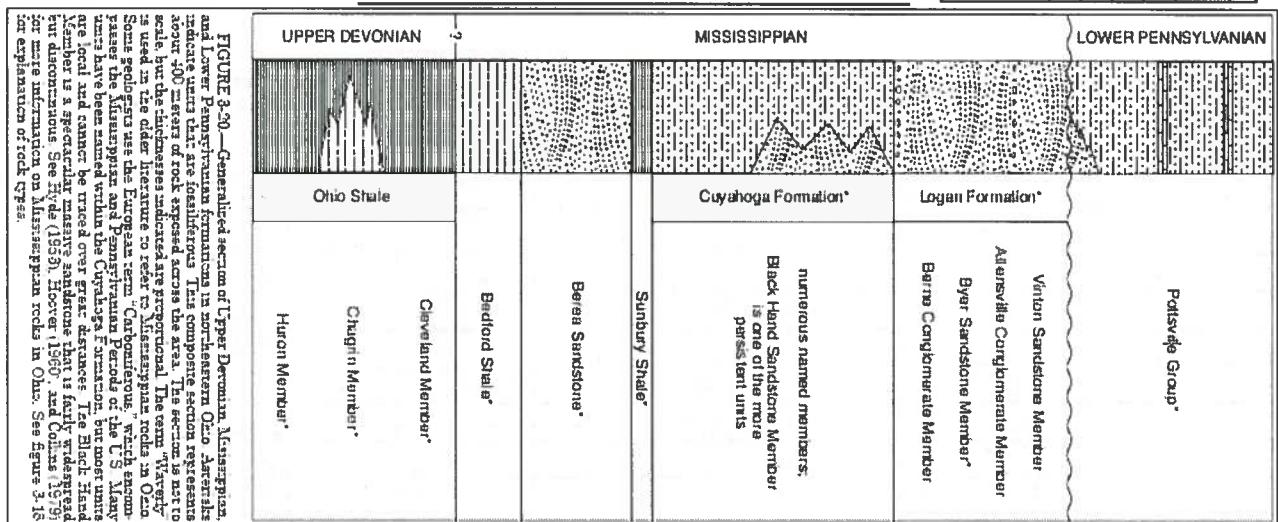


FIGURE 3-30.—Generalized section of Upper Devonian Mississippian and Lower Pennsylvanian formations in northeastern Ohio. Standardized units that are fossiliferous. This composite section represents about 4000 feet of rock exposed across the area. The section is not to scale, but the thicknesses indicated are proportional. The term "Wavy" is used in the older literature to refer to "Mississippian" rocks in Ohio. Some geologists use the Euroe as term "Carbo-Mississippian," which encompasses the Mississippian and Pennsylvanian Periods of the U.S.A. Units have been named within the Cuyahoga Formation, but most units are local and cannot be traced over great distances. The Black Hand Gorge is a spectacular massive sandstone that is fairly widespread in the four discontinuous. See Miles (1955), Hoover (1960), and Collins (1961) for more information on Mississippian rocks in Ohio. See figure 3-18 for explanation of rock types.

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

Soil pit module # 3 (one per entire plot)	
5 cm	matrix color 10YR 3/1
mottle color	n/a
%mottle	0
oxid roots	Y (N)
texture*	1
redox features**	Y (N)
hydr cond.***	I S M D
20 cm	matrix color 10YR 3/2
mottle color	n/a
%mottle	0
oxid roots	Y (N)
texture*	1
redox features**	Y (N)
hydro cond.***	I S M D

* refer to texture classes on reverse side

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

*** Circle one:

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

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

No evidence of worms

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)
2,3,8,9 composted	A
Web Soil Survey	
Soil Series/Type:	Tg, Tigray loam
Soil Series Source:	Ohio Soil Survey
Landform type:	Flood plains
Depth to rest. Layer:	>80 inches
Parent Material:	Alluvium
DRAINAGE:	
<input type="checkbox"/> Excessively dr.	<input type="checkbox"/> Somewhat excessively
<input checked="" type="checkbox"/> Well drained	<input type="checkbox"/> Moderately well dr.
<input type="checkbox"/> Somewhat poorly dr.	<input type="checkbox"/> Very poorly dr.
<input type="checkbox"/> Impermeable surface	

TK 8-17-10

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

mod#	1 litter+ organic depth (cm)	2 litter depth (cm)	water depth (cm)	depth sat soil (cm)
1	1.8	1.8	0	>30
2	1.6	1.6	0	>30
3	0.9	0.9	0	>30
4	1.1	1.1	0	>30

EARTH SURFACE & GROUND COVER	
Underlying Earth Surface*	Ground Cover
(Sum = 100%)	percent (Each \leq 100%)
Histosol	0 Coarse Woody Debris*** 4
Mineral Soil	98 Fine Woody Debris**** 3
Gravel-Cobble*	2 Litter 96
Boulder**	0 Duff (Ferm. + Humus) 0
Bedrock	0 Bryophyte- Lichen 2
* Gravel-Cobble = 1/16-10"	Water 0
**Boulder = > 10 in	Bare Soil 3
*** >5 cm in diameter	Road/Trail 3
**** <5 cm in diameter	Other

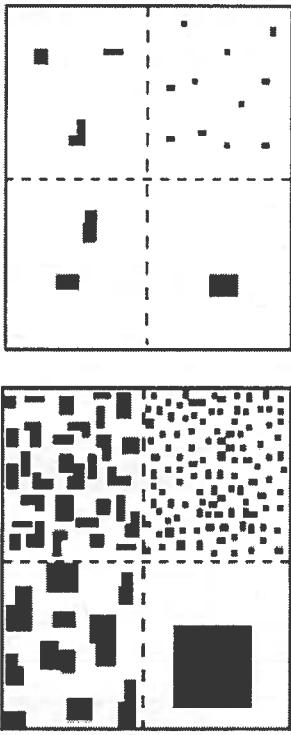
TRAIL INFORMATION:	
record type and cover for each	
Type	%Cover
<input type="checkbox"/> All Purpose	
<input type="checkbox"/> Bridle	
<input type="checkbox"/> Hiking sanctioned	
<input checked="" type="checkbox"/> Bootleg unsanctioned	3
<input type="checkbox"/> Gravel	
<input type="checkbox"/> Deer	

COVER BY STRATA		
estimate using midpoints of 5, ex: 3, 8, 13		
Strata	Height Range (m)	Total Cover (%)
Tree	>5	93
Shrub	.5 - 5	68
Herb	<.5	83
(Floating)*	-	
(Aquatic)*	-	
* rooted and floating or slightly emersed		
** submersed, most plant mass below surface		
SEE BACK OF PAGE FOR "TYPICAL" STRATA DESCRIPTIONS. STRATA CAN VARY BY COVER TYPE.		

STAND SIZE	
<input type="checkbox"/>	>600 x plot size
<input type="checkbox"/>	> 100 x plot size
<input type="checkbox"/>	10-100 x plot size
<input type="checkbox"/>	3-10 x plot size
<input checked="" type="checkbox"/>	1-3 x plot size
<input type="checkbox"/>	< plot size

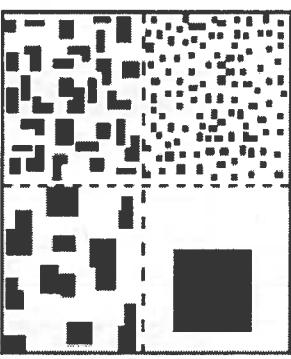
PERCENT MOTTLES (USE CLASS CODES):

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

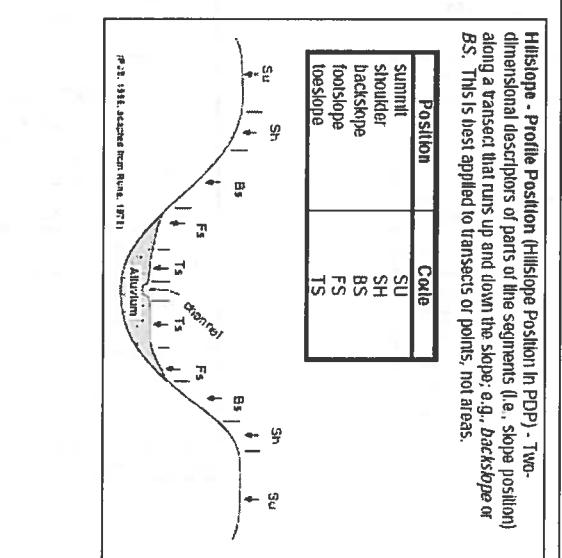
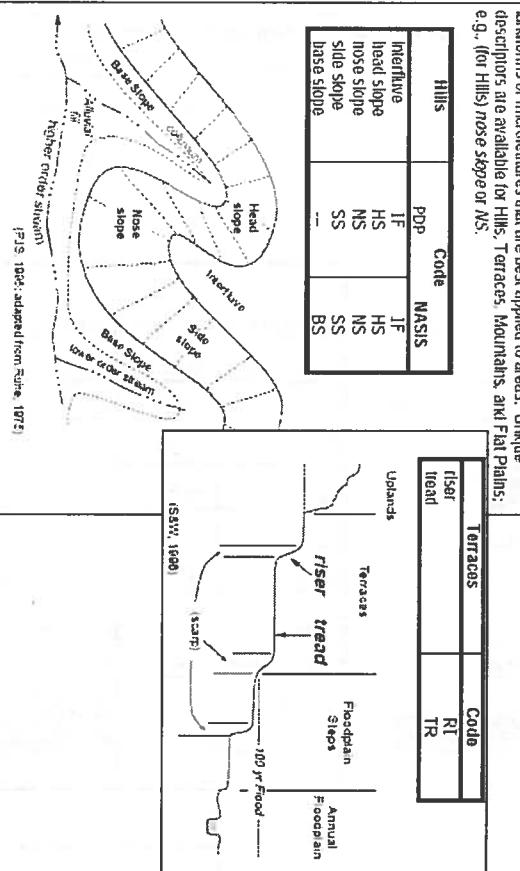


2%

20%



GEOMORPHIC COMPONENT: Three-dimensional descriptors of parts of landforms or microfeatures that are best applied to areas. Unique descriptors are available for Hills, terraces, Mountains, and Flat Plains; e.g., (for Hills) nose slope or NS.



9= Not measured - make plot note

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

0= Organic

1= Loamy

2= Clayey

3= Sandy

4= Coarse Sand

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

UPLAND: Not a wetland. Very rarely flooded.

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

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

OCCASIONALLY FLOODED: Surface water can be present for brief periods during growing season, but not in most years. Often characterizes floodplain upper terraces.

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

INTERMITTENTLY FLOODED: Substrate is usually exposed, but surface water can be present for variable periods without detectable seasonal periodicity. Inundation is not predictable to a given season and is dependent upon highly localized rain storms. This modifier was developed for use in the arid West for water regimes of Playa lakes, intermittent streams, and dry washes but can be used in other parts of the U.S. where appropriate. This modifier can be applied to both wetland and non-wetland situations. Equivalent to Cowardin's Intermittently Flooded modifier.

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 Cowardin's Intermittently Exposed and Semi-permanently Flooded modifiers.

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

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

WINN - 11111
Barbore - 11111
Olive - 11111

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initials): _____

Site ID:

PCAP Bi 3444

DATE: 08/08/2012

Location:

ON 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"/>
Big Trees (>0.3m DBH)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		Big Trees (>0.3m DBH)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		Big Trees (>0.3m DBH)	<input checked="" type="radio"/> 2 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	
Small Trees (<0.3m DBH)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		Small Trees (<0.3m DBH)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		Small Trees (<0.3m DBH)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	
Woody Shrubs, Saplings (0.5m-5m HGH)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		Woody Shrubs, Saplings (0.5m-5m HGH)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		Woody Shrubs, Saplings (0.5m-5m HGH)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	
Woody Shrubs, Saplings (<0.5m HGH)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		Woody Shrubs, Saplings (<0.5m HGH)	<input checked="" type="radio"/> 2 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		Woody Shrubs, Saplings (<0.5m HGH)	<input checked="" type="radio"/> 2 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	
Herbs, Forbs and Grasses	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		Herbs, Forbs and Grasses	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		Herbs, Forbs and Grasses	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	
Bare ground	<input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		Bare ground	<input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		Bare ground	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	
Litter, duff	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		Litter, duff	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		Litter, duff	<input checked="" type="radio"/> 2 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	
Rock	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		Rock	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		Rock	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	
Water	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		Water	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		Water	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	
Submerged Vegetation	<input checked="" type="radio"/> 3 <input type="radio"/> 2 <input type="radio"/> 1 <input type="radio"/> 0		Submerged Vegetation	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		Submerged Vegetation	<input checked="" type="radio"/> 3 <input type="radio"/> 2 <input type="radio"/> 1 <input type="radio"/> 0	

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"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		Ditches, Channelization	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		Pasture/Hay	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				
Road - two lane	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		Dike/Dam/Road/RR Bed (WIMBLED FLOW)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		Range	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				
Road - four lane	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		Water Level Control Structure	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		Row Crops	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				
Parking Lot/Pavement	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		Excavation, Dredging	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		Fallow Field (RECENT-RESTING ROW CROP FIELD)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				
Golf Course	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		Fill/Spoil Banks	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		Fallow Field (OLD - GRASS, SHRUBS, TREES)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				
Lawn/Park	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		Freshly Deposited Sediment (UNVEGETATED)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		Nursery	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				
Suburban Residential	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		Soil Loss/Root Exposure	<input checked="" type="radio"/> 2 <input type="radio"/> 1 <input type="radio"/> 0		Dairy	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				
Urban/Multifamily	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		Wall/Riprap	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		Orchard	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				
Landfill	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		Inlets, Outlets	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		Confined Animal Feeding	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				
Dumping	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		Point Source/Pipe (EFFLUENT OR STORMWATER)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		Rural Residential	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				
Trash	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		Impervious surface input (SHEETFLOW)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		Gravel Pit	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				
Other:	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		Other:	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		Irrigation	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				
Other:	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		Other:	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		Other:	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				

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"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		Forest Clear Cut	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		Herbicide Use	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				
Gas Wells	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		Forest Selective Cut	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		Mowing/Shrub Cutting	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				
Mine (surface)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		Tree Plantation	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		Trails	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				
Mine (underground)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		Tree Canopy Herbivory (INSECT)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		Soil Compaction (ANIMAL OR HUMAN)	<input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4				
Military	<input type="										

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

Reviewed by (Initials): _____

Site ID: PCAP Be 3444 DATE: 08/08/2012

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 checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Purple Loosestrife	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Johnson Grass	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Water hyacinth	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Knotweed	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Kudzu	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Yellow Floating Heart	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Japanese Knotweed	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Multiflora Rose	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Giant Salvinia	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Perennial Pepperweed	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Common Buckthorn	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Garlic Mustard	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Giant Reed	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Himalayan Blackberry	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Poison Hemlock	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Cheatgrass	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Tamansk	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Mile-A-Minute Weed	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Reed Canary Grass	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Other: _____	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Birdsfoot Trefoil	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Common Reed	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Other: _____	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Canada Thistle	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Leafy Spurge	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Other: _____	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

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):

AA CENTER ON3 OS3 W3 Nearest practicable location (flag and comment below) _____

Flag

Latitude North 41 - 37.952 Longitude West 081 - 56.631

Use Decimal Degrees; NAD83

Flag

Comments

1 Bootleg trail just ~~south~~ east of the plot

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): _____

Site ID: PCAPBe 3444

DATE: 0.8 / 0.8 / 20.1.2

Location: ● AA Center O N O S O E O W

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%)

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

● Plot 1 O Plot 2 O Plot 3

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 checked="" type="radio"/> E	Absent: <input type="radio"/>
Big Trees (>0.3m DBH)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Big Trees (>0.3m DBH)	<input type="radio"/>	<input checked="" type="radio"/>
Small Trees (<0.3m DBH)	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Small Trees (<0.3m DBH)	<input type="radio"/>	<input checked="" type="radio"/>
Woody Shrubs, Saplings (0.5m-5m Ht/Girth)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Woody Shrubs, Saplings (0.5m-5m Ht/Girth)	<input type="radio"/>	<input checked="" type="radio"/>
Woody Shrubs, Saplings (<0.5m Ht/Girth)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Woody Shrubs, Saplings (<0.5m Ht/Girth)	<input type="radio"/>	<input checked="" type="radio"/>
Herbs, Forbs and Grasses	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Herbs, Forbs and Grasses	<input type="radio"/>	<input checked="" type="radio"/>
Bare ground	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Bare ground	<input type="radio"/>	<input checked="" type="radio"/>
Litter, duff	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Litter, duff	<input type="radio"/>	<input checked="" type="radio"/>
Rock	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Rock	<input type="radio"/>	<input checked="" type="radio"/>
Water	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Water	<input type="radio"/>	<input checked="" type="radio"/>
Submerged Vegetation	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Submerged Vegetation	<input type="radio"/>	<input checked="" 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

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

Fill bubble if present - Plot 1 2 3 Flag

Fill bubble if present - Plot 1 2 3 Flag

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Fill bubble if present - Plot 1 2 3 Flag

Fill bubble if present - Plot 1 2 3 Flag

Industrial Development 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

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

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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

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

● 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

Buffer Sample Plots 05/27/2011

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

Reviews (Initial)

21

DATE: 08/08/2011

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

PILOT 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 comment 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.

Identifying conditions for success

1

卷之三

Longitude West 0 8 16 24 32

Use Decimal Degrees; NAD83

1.56492

West

gitude

Lon

20

M
7

479

3

14

die Nort

Latitude

10

卷之三

Boatleg trail runs through ~~not~~ following the river

Buffer Sample Points - Targeted Alien Species 05/27/2011

7966623548

1

Location: ○ AA Center ● N O S O E O W

●

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

2

●

○ 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%)

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FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (initials): _____

Site ID: PCAFBe3444

DATE: 08/08/2012

Location: ON OS • E OW

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"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			Buffer Plot 2	Canopy Type: <input checked="" type="radio"/> D <input type="radio"/> E			Absent: <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4			Buffer Plot 3	Canopy Type: <input checked="" type="radio"/> D <input type="radio"/> E			Absent: <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4		
	Leaf Type: <input checked="" type="radio"/> B <input type="radio"/> N	Flag	Leaf Type: <input checked="" type="radio"/> B <input type="radio"/> N	Flag	Leaf Type: <input checked="" type="radio"/> B <input type="radio"/> N	Flag		Leaf Type: <input checked="" type="radio"/> B <input type="radio"/> N	Flag	Leaf Type: <input checked="" type="radio"/> B <input type="radio"/> N	Flag	Leaf Type: <input checked="" type="radio"/> B <input type="radio"/> N	Flag							
Big Trees (>0.3m DBH)	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input checked="" type="radio"/> 2	<input checked="" type="radio"/> 3	<input checked="" type="radio"/> 4		Big Trees (>0.3m DBH)	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input checked="" type="radio"/> 2	<input checked="" type="radio"/> 3	<input checked="" type="radio"/> 4		Big Trees (>0.3m DBH)	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input checked="" type="radio"/> 2	<input checked="" type="radio"/> 3	<input checked="" type="radio"/> 4	
Small Trees (<0.3m DBH)	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input checked="" type="radio"/> 2	<input checked="" type="radio"/> 3	<input checked="" type="radio"/> 4		Small Trees (<0.3m DBH)	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input checked="" type="radio"/> 2	<input checked="" type="radio"/> 3	<input checked="" type="radio"/> 4		Small Trees (<0.3m DBH)	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input checked="" type="radio"/> 2	<input checked="" type="radio"/> 3	<input checked="" type="radio"/> 4	
Woody Shrubs, Saplings (0.5m-5m HGH)	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input checked="" type="radio"/> 2	<input checked="" type="radio"/> 3	<input checked="" type="radio"/> 4		Woody Shrubs, Saplings (0.5m-5m HGH)	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input checked="" type="radio"/> 2	<input checked="" type="radio"/> 3	<input checked="" type="radio"/> 4		Woody Shrubs, Saplings (0.5m-5m HGH)	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input checked="" type="radio"/> 2	<input checked="" type="radio"/> 3	<input checked="" type="radio"/> 4	
Woody Shrubs, Saplings (<0.5m HGH)	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input checked="" type="radio"/> 2	<input checked="" type="radio"/> 3	<input checked="" type="radio"/> 4		Woody Shrubs, Saplings (<0.5m HGH)	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input checked="" type="radio"/> 2	<input checked="" type="radio"/> 3	<input checked="" type="radio"/> 4		Woody Shrubs, Saplings (<0.5m HGH)	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input checked="" type="radio"/> 2	<input checked="" type="radio"/> 3	<input checked="" type="radio"/> 4	
Herbs, Forbs and Grasses	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input checked="" type="radio"/> 2	<input checked="" type="radio"/> 3	<input checked="" type="radio"/> 4		Herbs, Forbs and Grasses	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input checked="" type="radio"/> 2	<input checked="" type="radio"/> 3	<input checked="" type="radio"/> 4		Herbs, Forbs and Grasses	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input checked="" type="radio"/> 2	<input checked="" type="radio"/> 3	<input checked="" type="radio"/> 4	
Bare ground	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input checked="" type="radio"/> 2	<input checked="" type="radio"/> 3	<input checked="" type="radio"/> 4		Bare ground	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input checked="" type="radio"/> 2	<input checked="" type="radio"/> 3	<input checked="" type="radio"/> 4		Bare ground	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input checked="" type="radio"/> 2	<input checked="" type="radio"/> 3	<input checked="" type="radio"/> 4	
Litter, duff	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input checked="" type="radio"/> 2	<input checked="" type="radio"/> 3	<input checked="" type="radio"/> 4		Litter, duff	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input checked="" type="radio"/> 2	<input checked="" type="radio"/> 3	<input checked="" type="radio"/> 4		Litter, duff	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input checked="" type="radio"/> 2	<input checked="" type="radio"/> 3	<input checked="" type="radio"/> 4	
Rock	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input checked="" type="radio"/> 2	<input checked="" type="radio"/> 3	<input checked="" type="radio"/> 4		Rock	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input checked="" type="radio"/> 2	<input checked="" type="radio"/> 3	<input checked="" type="radio"/> 4		Rock	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input checked="" type="radio"/> 2	<input checked="" type="radio"/> 3	<input checked="" type="radio"/> 4	
Water	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input checked="" type="radio"/> 2	<input checked="" type="radio"/> 3	<input checked="" type="radio"/> 4		Water	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input checked="" type="radio"/> 2	<input checked="" type="radio"/> 3	<input checked="" type="radio"/> 4		Water	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input checked="" type="radio"/> 2	<input checked="" type="radio"/> 3	<input checked="" type="radio"/> 4	
Submerged Vegetation	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input checked="" type="radio"/> 2	<input checked="" type="radio"/> 3	<input checked="" type="radio"/> 4		Submerged Vegetation	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input checked="" type="radio"/> 2	<input checked="" type="radio"/> 3	<input checked="" type="radio"/> 4		Submerged Vegetation	<input type="radio"/> 0	<input checked="" type="radio"/> 1	<input checked="" type="radio"/> 2	<input checked="" type="radio"/> 3	<input checked="" 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	Fill bubble if present - Plot 1	2	3	Fill bubble if present - Plot 1	2	3	Fill bubble if present - Plot 1	2	3
Fill bubble if present - Plot 1	1	2	Flag	Fill bubble if present - Plot 1	1	2	Flag	Fill bubble if present - Plot 1	1	2	Flag
Road - gravel	<input type="radio"/> 0	<input checked="" type="radio"/> 1		Ditches, Channelization	<input type="radio"/> 0	<input checked="" type="radio"/> 1		Pasture/Hay	<input type="radio"/> 0	<input checked="" type="radio"/> 1	
Road - two lane	<input type="radio"/> 0	<input checked="" type="radio"/> 1		Dike/Dam/Road/RR Bed (IMPERMEABLE FLOW)	<input type="radio"/> 0	<input checked="" type="radio"/> 1		Range	<input type="radio"/> 0	<input checked="" type="radio"/> 1	
Road - four lane	<input type="radio"/> 0	<input checked="" type="radio"/> 1		Water Level Control Structure	<input type="radio"/> 0	<input checked="" type="radio"/> 1		Row Crops	<input type="radio"/> 0	<input checked="" type="radio"/> 1	
Parking Lot/Pavement	<input type="radio"/> 0	<input checked="" type="radio"/> 1		Excavation, Dredging	<input type="radio"/> 0	<input checked="" type="radio"/> 1		Fallow Field (RECENT-RESTING (ROW CROP FIELD))	<input type="radio"/> 0	<input checked="" type="radio"/> 1	
Golf Course	<input type="radio"/> 0	<input checked="" type="radio"/> 1		Fill/Soil Banks	<input type="radio"/> 0	<input checked="" type="radio"/> 1		Fallow Field (OLD - GRASS, SHRUBS, TREES)	<input type="radio"/> 0	<input checked="" type="radio"/> 1	
Lawn/Park	<input type="radio"/> 0	<input checked="" type="radio"/> 1		Freshly Deposited Sediment (UNVEGETATED)	<input type="radio"/> 0	<input checked="" type="radio"/> 1		Nursery	<input type="radio"/> 0	<input checked="" type="radio"/> 1	
Suburban Residential	<input type="radio"/> 0	<input checked="" type="radio"/> 1		Soil Loss/Root Exposure	<input type="radio"/> 0	<input checked="" type="radio"/> 1		Dairy	<input type="radio"/> 0	<input checked="" type="radio"/> 1	
Urban/Multifamily	<input type="radio"/> 0	<input checked="" type="radio"/> 1		Wall/Riprap	<input type="radio"/> 0	<input checked="" type="radio"/> 1		Orchard	<input type="radio"/> 0	<input checked="" type="radio"/> 1	
Landfill	<input type="radio"/> 0	<input checked="" type="radio"/> 1		Inlets, Outlets	<input type="radio"/> 0	<input checked="" type="radio"/> 1		Confined Animal Feeding	<input type="radio"/> 0	<input checked="" type="radio"/> 1	
Dumping	<input type="radio"/> 0	<input checked="" type="radio"/> 1		Point Source/Pipe (EFFLUENT OR STORMWATER)	<input type="radio"/> 0	<input checked="" type="radio"/> 1		Rural Residential	<input type="radio"/> 0	<input checked="" type="radio"/> 1	
Trash	<input type="radio"/> 0	<input checked="" type="radio"/> 1		Impervious surface input (SHEET-FLOW)	<input type="radio"/> 0	<input checked="" type="radio"/> 1		Gravel Pit	<input type="radio"/> 0	<input checked="" type="radio"/> 1	
Other:	<input type="radio"/> 0	<input checked="" type="radio"/> 1		Other:	<input type="radio"/> 0	<input checked="" type="radio"/> 1		Irrigation	<input type="radio"/> 0	<input checked="" type="radio"/> 1	
Other:	<input type="radio"/> 0	<input checked="" type="radio"/> 1		Other:	<input type="radio"/> 0	<input checked="" type="radio"/> 1		Other:	<input type="radio"/> 0	<input checked="" type="radio"/> 1	

Industrial Development 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"/> 0	<input checked="" type="radio"/> 1		Forest Clear Cut	<input type="radio"/> 0	<input checked="" type="radio"/> 1		Herbicide Use	<input type="radio"/> 0	<input checked="" type="radio"/> 1	
Gas Wells	<input type="radio"/> 0	<input checked="" type="radio"/> 1		Forest Selective Cut	<input type="radio"/> 0	<input checked="" type="radio"/> 1		Mowing/Shrub Cutting	<input type="radio"/> 0	<input checked="" type="radio"/> 1	
Mine (surface)	<input type="radio"/> 0	<input checked="" type="radio"/> 1		Tree Plantation	<input type="radio"/> 0	<input checked="" type="radio"/> 1		Trails	<input type="radio"/> 0	<input checked="" type="radio"/> 1	
Mine (underground)	<input type="radio"/> 0	<input checked="" type="radio"/> 1		Tree Canopy/Herbivory (INSECT)	<input type="radio"/> 0	<input checked="" type="radio"/> 1		Soil Compaction (ANIMAL OR HUMAN)	<input type="radio"/> 0	<input checked="" type="radio"/> 1	
Military	<input type="radio"/> 0	<input checked="" type="radio"/> 1		Shrub Layer Browsing (WILD OR DOMESTIC)	<input type="radio"/> 0	<input checked="" type="radio"/> 1		Offroad vehicle damage	<input type="radio"/> 0	<input checked="" type="radio"/> 1	
Other:	<input type="radio"/> 0	<input checked="" type="radio"/> 1		Highly Grazed Grasses (OVERALL -> HIGH)	<input type="radio"/> 0	<input checked="" type="radio"/> 1		Soil erosion (FROM WIND, WATER, OR OVERUSE)	<input type="radio"/> 0	<input checked="" type="radio"/> 1	
Other:	<input type="radio"/> 0	<input checked="" type="radio"/> 1		Recently Burned Forest Canopy	<input type="radio"/> 0	<input checked="" type="radio"/> 1		Other:	<input type="radio"/> 0	<input checked="" type="radio"/> 1	
Other:	<input type="radio"/> 0	<input checked="" type="radio"/> 1		Recently Burned Grassland (BLACKENED)	<input type="radio"/> 0	<input checked="" type="radio"/> 1		Other:	<input type="radio"/> 0	<input checked="" type="radio"/> 1	

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

Buffer Sample Plots 05/27/2011

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

Reviewed by (initials): _____

Site ID: PCAPB3444 DATE: 0.8/0.8/2.0.12

● 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 checked="" type="radio"/>	<input checked="" 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 type="radio"/>	<input type="radio"/>	<input checked="" 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"/>			<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):

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

Flag _____

Latitude North 41.37.99.2 Longitude West 0.81.56.34.5

Use Decimal Degrees; NAD83

Flag Comments

1 Bootleg runs N of plot leading gradually towards the river

FORM B-1: BUFFER SAMPLE PLOTS (Front) Reviewed by (Initial): _____

Site ID: PCAP Bx 3444

Date: 08/10/2012

Location: ON

OAA Center ON OS OE OW

O Plot 1 O Plot 2 O Plot 3

Buffer Natural Cover Strata

Fill in bubbles for all that apply: Canopy Type: D = Deciduous; E = Evergreen; Leaf Type: B = Broadleaf; N = Needle/Leaf; Absent: No tree canopy.

Strata Section: Fill in appropriate cover class bubble for each strata type for each plot: 0 = Absent; 1 = Sparse(<10%); 2 = Moderate(10-40%); 3 = Heavy (40-75%); 4 = Very Heavy (>75%)

Buffer Plot 1	Canopy Type:		Absent: <input type="radio"/>	Buffer Plot 2	Canopy Type:		Absent: <input type="radio"/>	Buffer Plot 3	Canopy Type:		Absent: <input type="radio"/>	Flag
	D	E			B	N			D	E		
Big Trees (>0.3m DBH)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input 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 type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Woody Shrubs, Saplings (0.5m-5m HGH)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Woody Shrubs, Saplings (<0.5m HGH)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input 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 type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Bare ground	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Litter, duff	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Rock	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Water	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Submerged Vegetation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input 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 type="radio"/>	<input type="radio"/>	Ditches, Channelization	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Pasture/Hay	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Road - two lane	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Dike/Dam/Road/RR Bed (IMPERMEABLE)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Range	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Road - four lane	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Water Level Control Structure	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Row Crops	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Parking Lot/Pavement	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Excavation, Dredging	<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"/>
Golf Course	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Fill/Soil Banks	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Fallow Field (OLD - GRASS, SHRUBS, TREES)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lawn/Park	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Freshly Deposited Sediment (UNVEGETATED)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Nursery	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Suburban Residential	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Soil Loss/Roof Exposure	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Dairy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Urban/Multifamily	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Wall/Riprap	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Orchard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Landfill	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Inlets, Outlets	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Confined Animal Feeding	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Dumping	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Point Source/Pipe (EFFLUENT OR STORMWATER)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Rural Residential	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Trash	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Impervious surface input (SHEETFLOW)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Gravel Pit	<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"/>	Irrigation	<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"/>	Other:	<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"/>	Other:	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Industrial Development 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"/>	Forest Clear Cut	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Herbicide Use	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Gas Wells	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Forest Selective Cut	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Mowing/Shrub Cutting	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mine (Surface)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Tree Plantation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Trails	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mine (underground)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Tree Canopy Herbivory (INSECT)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Soil Compaction (ANIMAL OR HUMAN)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Military	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Shrub Layer Browsing (WILDLIFE OR DOMESTIC)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Offroad vehicle damage	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other:	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Highly Grazed Grasses (OVERALL -> HIGH)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Soil erosion (FROM WIND, WATER, OR OVERUSE)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other:	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Recently Burned Forest Canopy (BLACKENED)	<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"/>	Recently Burned Grassland (BLACKENED)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Other:	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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

Buffer Sample Plots 05/27/2011

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