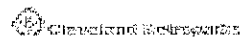


CLEVELAND METROPARKS Plant Community Assessment Program: Quality Control Form



Project Label:

PCAP

Plot No:

1167

Date Sampled:

7/13/2011

Lead:

DS

Comment required if item answer is NO

| | | | |
|--|------------------------------------|---|---|
| Parking/Access outside of Park Boundaries: | <input checked="" type="radio"/> Y | N | If yes, write details in Comments section below |
| Field journals completed | <input checked="" type="radio"/> Y | N | |
| Site sketch made on 1:3000 map? | <input checked="" type="radio"/> Y | N | |
| Check cover page | <input checked="" type="radio"/> Y | N | |
| X-axis Bearing of plot recorded | <input checked="" type="radio"/> Y | N | |
| GPS coords. Recorded | <input checked="" type="radio"/> Y | N | |
| North direction recorded | <input checked="" type="radio"/> Y | N | |
| Photographs taken? | <input checked="" type="radio"/> Y | N | |
| Plot No., Date agreement on all pages? | <input checked="" type="radio"/> Y | N | |
| Header data completed all pages? | <input checked="" type="radio"/> Y | N | |
| Cover classes recorded in all Intensive modules | <input checked="" type="radio"/> Y | N | |
| Browse Level By Species | <input checked="" type="radio"/> Y | N | |
| Woody stem quality control check | <input checked="" type="radio"/> Y | N | |
| Invasive plant quality control check | <input checked="" type="radio"/> Y | N | |
| Ash trees mapped | <input checked="" type="radio"/> Y | N | |
| Cover by Strata? (confirm cover type) | <input checked="" type="radio"/> Y | N | |
| Soil samples collected with matching plot #. | <input checked="" type="radio"/> Y | N | |
| Vouchers labeled on datasheet with initials and number | <input checked="" type="radio"/> Y | N | |
| Vouchers labeled on collection bag | <input checked="" type="radio"/> Y | N | |
| Pink flags removed | <input checked="" type="radio"/> Y | N | |
| Data sheet QA before leaving site? | <input checked="" type="radio"/> Y | N | |
| Common equipment returned to tub | <input checked="" type="radio"/> Y | N | |
| Data sheets scanned? | 7/15 | | Enter date to left |
| Final data sheets scanned? | | | Enter date to left |
| Buffer Widths measured? | <input checked="" type="radio"/> Y | N | |
| Web Soil Survey | <input checked="" type="radio"/> Y | N | |
| Voucher Location | Refrigerator | <input checked="" type="radio"/> Y <input checked="" type="radio"/> N | all ID's and discarded |
| (# vouchers collected) | Press (#) | | Enter number to left |
| | Drier | <input checked="" type="radio"/> Y <input checked="" type="radio"/> N | |
| | Identified | <input checked="" type="radio"/> Y <input checked="" type="radio"/> N | |
| | Mounted | <input checked="" type="radio"/> Y <input checked="" type="radio"/> N | |
| | Thrown away | <input checked="" type="radio"/> Y <input checked="" type="radio"/> N | |

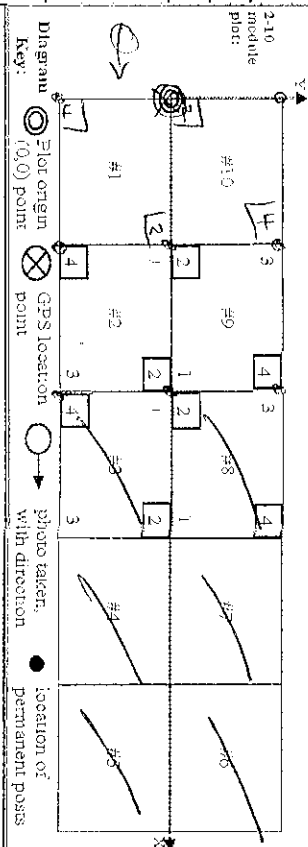
| | |
|--|---|
| GRIS point verification: Is plot sampleable? | |
| <input checked="" type="checkbox"/> Yes | Original GRIS point is sampleable |
| <input type="checkbox"/> No | Original GRIS point lands in a non-sampleable area (fill in category below) |
| | <input type="checkbox"/> Point falls in a 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:

PARK @ DRAKE RESIDENCE (see plot folder 1019)
(14174 Drake Rd.)

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

| GENERAL INFORMATION | | LOCATION | |
|--|--|--|--|
| Project Label: PCAP | State: OH | County: CUYAHOGA | |
| Project Name: 01 MS 2011 | Quadrangle: BEECH | Local Place Names: DRAKE RD & BOTH ST INTERSECTION | |
| Plot Name: THE MENEST | Landowner: CLE METROPARKS | X-axis Bearing of plot: [214]° | |
| Plot No.: 1167 | Level 4 (no nested corners sampled) | Data Confidentiality: <input checked="" type="checkbox"/> Public data <input type="checkbox"/> Private Data | |
| <input type="checkbox"/> Level 5 (nested corners sampled) | Check one: <input checked="" type="checkbox"/> Public data <input type="checkbox"/> Private Data | Reason: <input type="checkbox"/> Fuzz 100m <input type="checkbox"/> Fuzz 250m <input type="checkbox"/> Fuzz 500m | |
| Date (mm/dd/yyyy): 07/13/2011 | End date (if > 1 day): / / | If data not public why? | |
| Party: <input type="checkbox"/> STEVEN <input type="checkbox"/> Z. BARTON <input type="checkbox"/> A. MACK <input type="checkbox"/> C. CELLA | Plot leader: BARTON | Source of coordinates: <input type="checkbox"/> MAP <input checked="" type="checkbox"/> GPS | |
| Ass't: BARTON | GPS location in plot x=0 to 5, y=-1.0, +1): x = 0 y = 0 (base of plot x=0, y=0) | Coordinate system: <input type="checkbox"/> UTM <input type="checkbox"/> StatePlane <input type="checkbox"/> Other (specify) | |
| ** Rules: Collector, Ass't, Guide, Observer, Taxonomist, etc. | Plot NOT SAMPLED: <input type="checkbox"/> Other | Datum: <input checked="" type="checkbox"/> NAD83/WGS84 <input type="checkbox"/> NAD27 | |
| <input type="checkbox"/> Perm. water <input type="checkbox"/> Paved <input type="checkbox"/> Slope <input type="checkbox"/> Safety | SAMPLING QUALITY*: subjective evaluation of how much effort put into sampling. Hurried plots may still provide good data | Latitude: 41.29290 | |
| Effort Level: <input checked="" type="checkbox"/> Very thorough <input type="checkbox"/> Accurate <input type="checkbox"/> Hurried | TAXONOMIC ACCURACY: high/moderate/low/not sampled | Longitude: 81.78931 | |
| <input type="checkbox"/> Accurate <input type="checkbox"/> Hurried | Vascul. byo. hben | Coord. Accuracy: \pm m <input type="checkbox"/> ft | |
| TAXONOMIC STANDARD | Authority: G&C Pub Date: 1998 | GPS File Name: 1167A | |
| Minimum required fields in Bold and Underlined | | Plot size for cover data: 0.64 (hectares) | |
| | | Stems not sampled on this plot: <input type="checkbox"/> Stems absent | |
| | | Stems present: Plot size stems: 0.64 (ha) | |
| | | Depth: (1-5): 4 | |
| | | Intensive modules: 2, 3, 4 | |
| | | Camera No.: 3 | |
| | | Photo Nos.: C-3 0534 | |
| | | * Definitions and values in CM PCAP FORM v. 1.0 and CVS Field Guide | |
| | | OVER | |



Plot placement: ☐ Representative ☒ GRTS ☐ Random ☐ Stratified Random

Transect component: ☐ Systematic (grid) ☐ Capture specific feature ☐ Other

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

LAYER 2 x 2

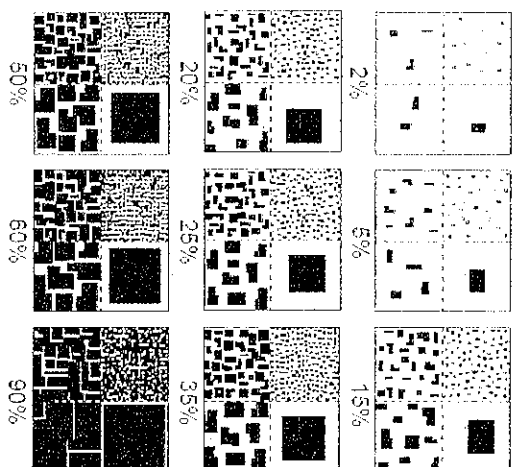
LOCATION - on 470m NW of intersection of Drake Rd & W 130TH St. Parking at Drake residence (14174 Drake Rd) Walk east; plot is Hawthorn thicket with Toxicodendron carpet.

RATIONALE - reduced size captures representative community; agree with layout; original SPETS pt. @ (0,0)

VEG - Castanegus shrub thicket with Fraxinus and Acer rubrum in tree layer (most of those covered by Vitis); other shrubs include Fraxinus, Rosa multiflora, Viburnum and Cornus. Held larger a mix of weedy disturbance spp.

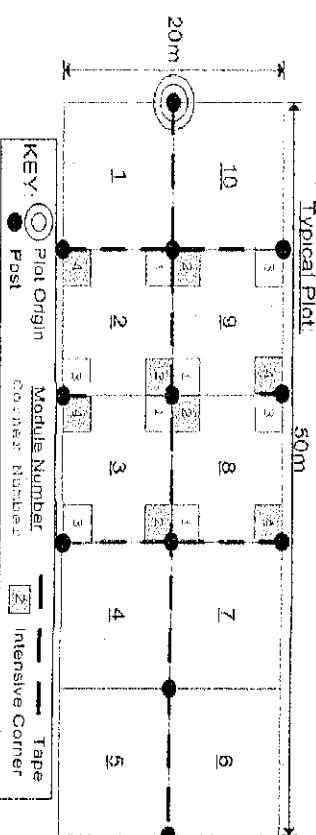
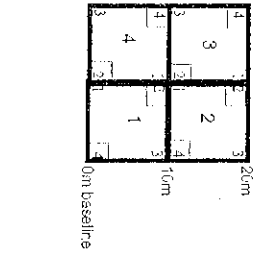
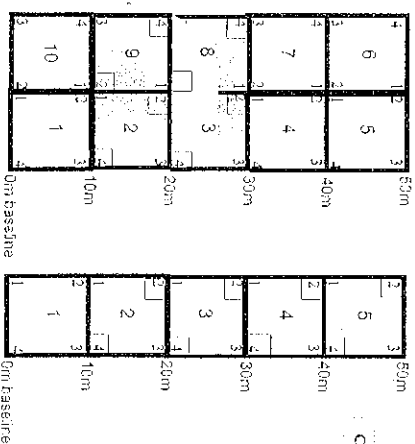
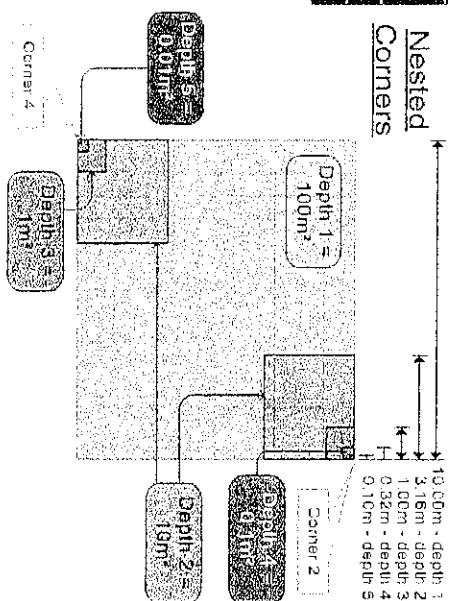
EXAMPLES OF PERCENT OF AREA COVERED

The following graphic can be used for qualitative data analysis to convey amount of "cover". NOTE: Within a given box, each quadrant contains the same total area covered, just different spread patterns.



| 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 |

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.

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.

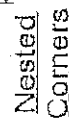
MEDIUM: browse affects greater than 10 percent and less than 25 percent of stems in the 1 m2 nested quadrat and intensive module. A browse line is usually not evident or obvious for all classes and species of vegetation, but careful examination may show preferential browse and/or browse lines for some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

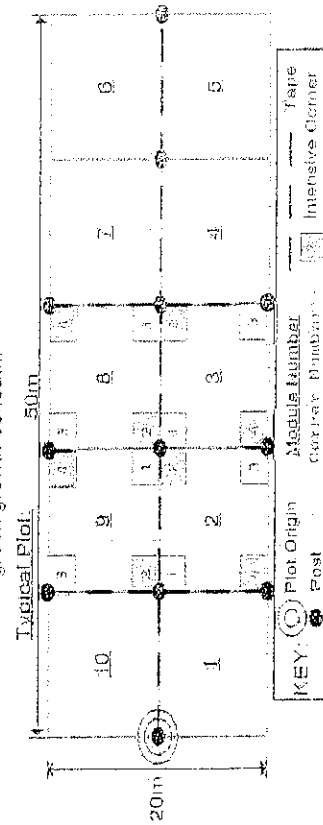
HIGH: greater than 25 percent of the stems of plants in the 1 m2 nested quadrat and intensive module AND a browse line is evident.

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.

The forecasting graphic can be used for various data elements to convey "Attention" or "Curiosity". NOTE: When city grid has each quadrant color, the same total area covered, just different sized elements.



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

Project Label: PCAP Project name: ELMS 2011 Plot no.: 1167

Total modules: Intensive modules: Plot configuration: Plot area (ha):

Visual est. % open water entire site: Visual est. %unveg. cov. entire site: Visual est. %invasives entire site:

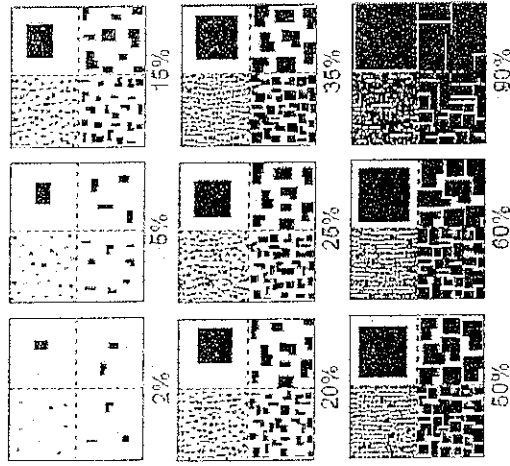


Br = Browse Level Use cover classes to describe amount of browse per species over entire plot

| T | S | H(F) | (A) | B1 | Species | C | Voucher # | Estimate for each intensive module: | | | | | | | | | | | | | | | |
|---|---|------|-----|----|-----------------------------|---|-----------|-------------------------------------|------------------------------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| | | | | | | | | %unveg. ground (bare soil) | %unveg. litter (bare litter) | mod | corner | mod | corner | mod | corner | mod | corner | mod | corner | mod | corner | mod | corner |
| | | | | | | | | | | 1 | 4 | 1 | 2 | 2 | 4 | 3 | 4 | 3 | 2 | 4 | 4 | 2 | R |
| | | | | | | | | | | 1 | 4 | 1 | 2 | 2 | 4 | 3 | 4 | 3 | 2 | 4 | 4 | 2 | R |
| 4 | | | | | <i>Carex amphioxys</i> | X | DS 153 | | | 1 | 4 | | | | | | | | | | | | |
| | | | | | <i>Quercus alba</i> | | | | | | | | | | | | | | | | | | |
| | | | | | <i>Ligustrum vulgare</i> | | | | | | | | | | | | | | | | | | |
| | | | | | <i>Rosa sp</i> | | | | | | | | | | | | | | | | | | |
| | | | | | <i>Agrostis perillifera</i> | | | | | | | | | | | | | | | | | | |
| | | | | | <i>Aster 2</i> | | | | | | | | | | | | | | | | | | |
| | | | | | <i>Carex amphioxys</i> | | | | | | | | | | | | | | | | | | |
| | | | | | <i>Carex cristatella</i> | X | DS 154 | | | 1 | 2 | | | | | | | | | | | | |
| | | | | | <i>Carex cristatella</i> | | | | | | | | | | | | | | | | | | |
| 4 | | | | | <i>Urtica americana</i> | | | | | | | | | | | | | | | | | | |
| | | | | | <i>Ranunculus abortivus</i> | X | DS 155 | | | | | | | | | | | | | | | | |
| | | | | | <i>Calystegia sepium</i> | | | | | | | | | | | | | | | | | | |
| | | | | | <i>Campsis radicans</i> | | | | | | | | | | | | | | | | | | |
| | | | | | <i>Vitis riparia</i> | | | | | | | | | | | | | | | | | | |
| 3 | | | | | <i>Oxalis stricta</i> | | | | | | | | | | | | | | | | | | |
| | | | | | <i>Rubus pensilvanicus</i> | | | | | | | | | | | | | | | | | | |
| | | | | | <i>Polygonum virginicum</i> | | | | | | | | | | | | | | | | | | |
| | | | | | <i>Solidago canadensis</i> | | | | | | | | | | | | | | | | | | |
| | | | | | <i>Quercus seedling</i> | | | | | | | | | | | | | | | | | | |
| | | | | | <i>Circaea lutea</i> | | | | | | | | | | | | | | | | | | |
| | | | | | <i>Asplenium sp.</i> | | | | | | | | | | | | | | | | | | |
| | | | | | <i>Desmodium sp.</i> | | | | | | | | | | | | | | | | | | |

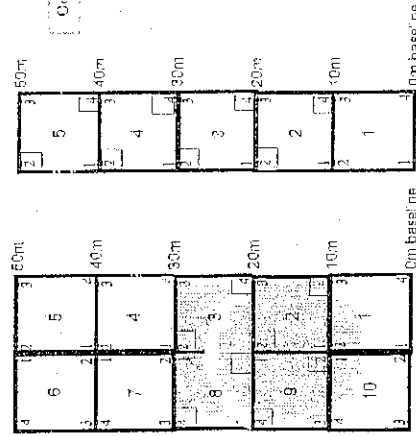
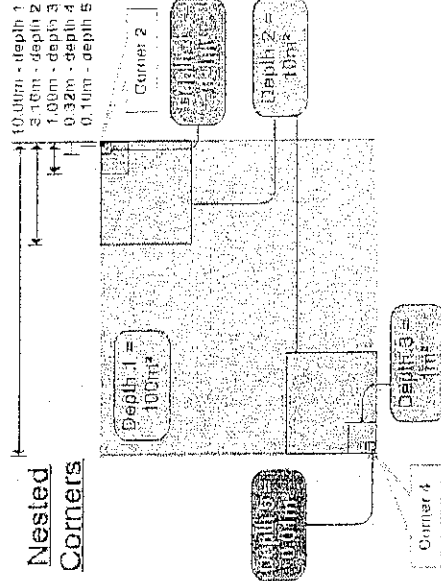
EXAMPLES OF PERCENT OF AREA COVERED

The following examples can be used for values data elements to convey "Amount" or "Quantity". NOTE: Within any given box, each identifier contains the same total area covered, just different size objects.



| cover class | % cover | midpoint |
|-------------|-----------------|----------|
| 1 | solitary or few | 0.0001 |
| 2 | 0-1% | 0.005 |
| 3 | 1-2% | 0.015 |
| 4 | 2-5% | 0.036 |
| 5 | 5-10% | 0.075 |
| 6 | 10-25% | 0.175 |
| 7 | 25-50% | 0.375 |
| 8 | 50-75% | 0.625 |
| 9 | 75-90% | 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.

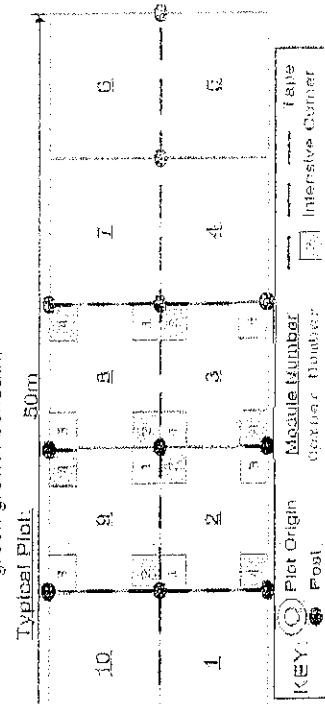
MEDIUM LOW: values include evidence of browse at about 10 percent of the stems with no significant impact to plant reproduction evident. In this rating, plants are browsed but preferential species are observed to be reproducing in numbers that appear normal or near-normal in comparison to low browse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

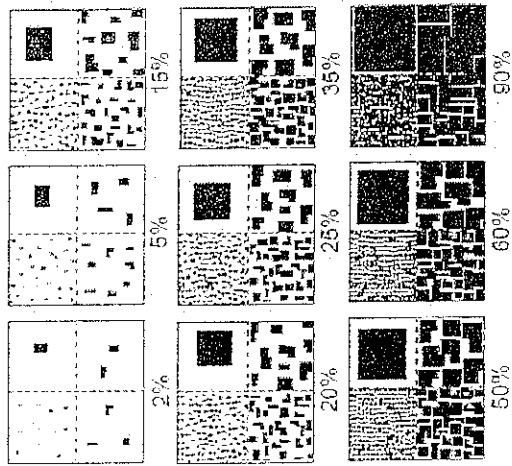
HIGH: greater than 25 percent of the stems of plants in the 1 m2 nested quadrat and intensive module AND a browse line is evident.

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.



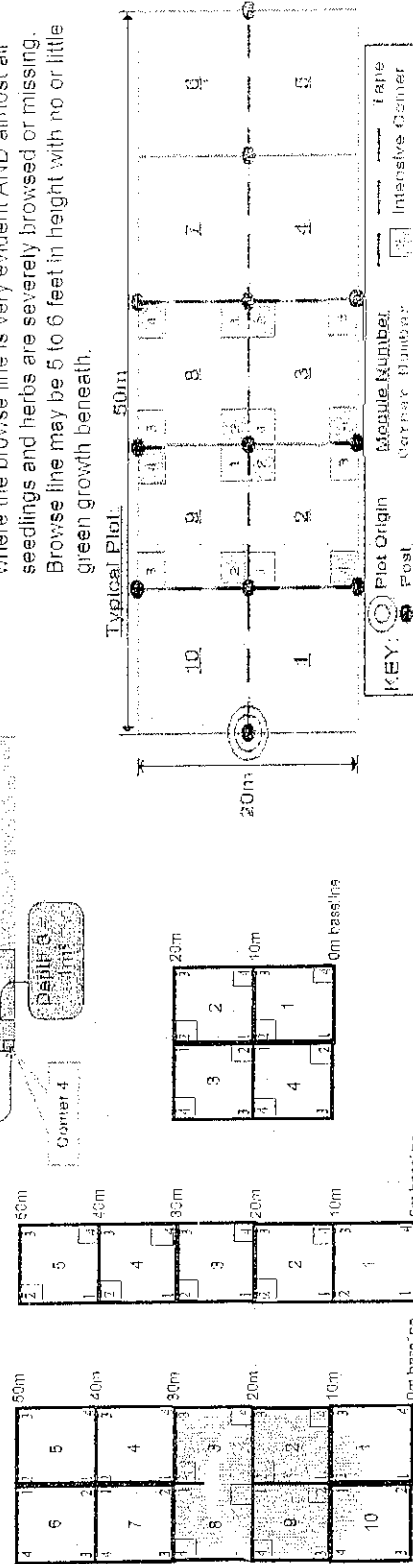
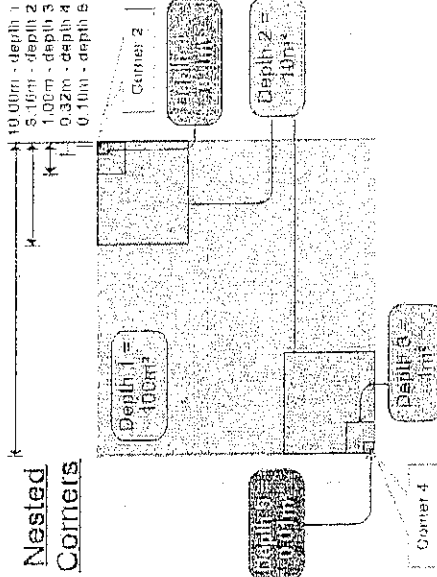
EXAMPLES OF PERCENT OF AREA COVERED

The following grid can be used for various data elements to convey "Amount of Cover". **NOTE:** Within any given box, each quadrant contains the same total area covered, just different sized objects.

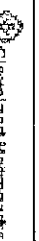


BROWSE RATING NARRATIVE DESCRIPTION

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 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: Olmszell

Plot No.: 1167

Page: 1 or 2

Explain subsample (additional room on back):

| mod # | species | 0 | voucher# | # stems: 0.5-1m or super sample | % sub clumps | # | size class (cm) woody stems > 1m | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|-------|-------------------------------|---|----------|--|-----------------|---|----------------------------------|---|---|---|---|---|---|---|---|---|----|----|
| 1 | <i>Fraxinus americana</i> | | | | | | | | | | | | | | | | | |
| 1 | <i>Cretaceus sp.</i> | | | | | | | | | | | | | | | | | |
| 1 | <i>Cornus Florida</i> | | | | | | | | | | | | | | | | | |
| 1 | <i>Vitis aestivalis</i> | | | | | | | | | | | | | | | | | |
| 1 | <i>Standing Dead</i> | | | | | | | | | | | | | | | | | |
| 1 | <i>Toxicodendron radicans</i> | | | | | | | | | | | | | | | | | |
| 1 | <i>Rhus glabra</i> | | | | | | | | | | | | | | | | | |
| 1 | <i>Rosa multiflora</i> | | | | | | | | | | | | | | | | | |
| 1 | <i>Fraxinus alnus</i> | | | | | | | | | | | | | | | | | |
| 2 | <i>Acer rubrum</i> | | | | | | | | | | | | | | | | | |
| 2 | <i>Fraxinus americana</i> | | | | | | | | | | | | | | | | | |
| 2 | <i>Cretaceus sp.</i> | | | | | | | | | | | | | | | | | |
| 2 | <i>Carya ovata</i> | | | | | | | | | | | | | | | | | |
| 2 | <i>Toxicodendron radicans</i> | | | | | | | | | | | | | | | | | |
| 2 | <i>Fraxinus alnus</i> | | | | | | | | | | | | | | | | | |
| 2 | <i>Standing Dead</i> | | | | | | | | | | | | | | | | | |
| 2 | <i>Prunus cerasus</i> | | | | | | | | | | | | | | | | | |
| 2 | <i>Ulmus americana</i> | | | | | | | | | | | | | | | | | |
| 2 | <i>Prunus serotina</i> | | | | | | | | | | | | | | | | | |
| 2 | <i>Vitis aestivalis</i> | | | | | | | | | | | | | | | | | |
| 2 | <i>Cornus racemosa</i> | | | | | | | | | | | | | | | | | |
| 3 | <i>Rosa multiflora</i> | | | | | | | | | | | | | | | | | |
| 3 | <i>Celastrus sp.</i> | | | | | | | | | | | | | | | | | |
| 3 | <i>Fraxinus americana</i> | | | | | | | | | | | | | | | | | |

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.

A
B
C
D
E

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.

1
2
3
4
5

DBH Measurement Rules

1. **Tree on slope:** Measure at a point where the trunk is perpendicular to the slope.
 2. **Small diameter tree:** Measure at a point where the trunk is perpendicular to the ground.
 3. **Tree with buttresses or irregular shape:** Measure at a point where the trunk is perpendicular to the ground.
 4. **Tree with a large hollow or decay:** Measure at a point where the trunk is perpendicular to the ground.
 5. **Tree with a large hollow or decay:** Measure at a point where the trunk is perpendicular to the ground.
 6. **Tree with a large hollow or decay:** Measure at a point where the trunk is perpendicular to the ground.
 7. **Tree with a large hollow or decay:** Measure at a point where the trunk is perpendicular to the ground.
 8. **Tree with a large hollow or decay:** Measure at a point where the trunk is perpendicular to the ground.
 9. **Tree with a large hollow or decay:** Measure at a point where the trunk is perpendicular to the ground.
 10. **Tree with a large hollow or decay:** Measure at a point where the trunk is perpendicular to the ground.

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 6 7 8 9 10

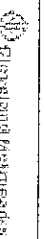
CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Level: PCAP

Project Name: CWV 2011

Plot No.: 167

Page: 2 of 2



Explain subbearing (additional room on back)

| Mod # | Species | Voucher# | # stems 0.5-1m 1m-1.5m 1.5-2m 2-3m 3-4m 4-5m 5-6m 6-7m 7-8m 8-9m 9-10m 10-11m 11-12m 12-13m 13-14m 14-15m 15-16m 16-17m 17-18m 18-19m 19-20m 20-21m 21-22m 22-23m 23-24m 24-25m 25-26m 26-27m 27-28m 28-29m 29-30m 30-31m 31-32m 32-33m 33-34m 34-35m 35-36m 36-37m 37-38m 38-39m 39-40m 40-41m 41-42m 42-43m 43-44m 44-45m 45-46m 46-47m 47-48m 48-49m 49-50m 50-51m 51-52m 52-53m 53-54m 54-55m 55-56m 56-57m 57-58m 58-59m 59-60m 60-61m 61-62m 62-63m 63-64m 64-65m 65-66m 66-67m 67-68m 68-69m 69-70m 70-71m 71-72m 72-73m 73-74m 74-75m 75-76m 76-77m 77-78m 78-79m 79-80m 80-81m 81-82m 82-83m 83-84m 84-85m 85-86m 86-87m 87-88m 88-89m 89-90m 90-91m 91-92m 92-93m 93-94m 94-95m 95-96m 96-97m 97-98m 98-99m 99-100m 100-101m 101-102m 102-103m 103-104m 104-105m 105-106m 106-107m 107-108m 108-109m 109-110m 110-111m 111-112m 112-113m 113-114m 114-115m 115-116m 116-117m 117-118m 118-119m 119-120m 120-121m 121-122m 122-123m 123-124m 124-125m 125-126m 126-127m 127-128m 128-129m 129-130m 130-131m 131-132m 132-133m 133-134m 134-135m 135-136m 136-137m 137-138m 138-139m 139-140m 140-141m 141-142m 142-143m 143-144m 144-145m 145-146m 146-147m 147-148m 148-149m 149-150m 150-151m 151-152m 152-153m 153-154m 154-155m 155-156m 156-157m 157-158m 158-159m 159-160m 160-161m 161-162m 162-163m 163-164m 164-165m 165-166m 166-167m 167-168m 168-169m 169-170m 170-171m 171-172m 172-173m 173-174m 174-175m 175-176m 176-177m 177-178m 178-179m 179-180m 180-181m 181-182m 182-183m 183-184m 184-185m 185-186m 186-187m 187-188m 188-189m 189-190m 190-191m 191-192m 192-193m 193-194m 194-195m 195-196m 196-197m 197-198m 198-199m 199-200m 200-201m 201-202m 202-203m 203-204m 204-205m 205-206m 206-207m 207-208m 208-209m 209-210m 210-211m 211-212m 212-213m 213-214m 214-215m 215-216m 216-217m 217-218m 218-219m 219-220m 220-221m 221-222m 222-223m 223-224m 224-225m 225-226m 226-227m 227-228m 228-229m 229-230m 230-231m 231-232m 232-233m 233-234m 234-235m 235-236m 236-237m 237-238m 238-239m 239-240m 240-241m 241-242m 242-243m 243-244m 244-245m 245-246m 246-247m 247-248m 248-249m 249-250m 250-251m 251-252m 252-253m 253-254m 254-255m 255-256m 256-257m 257-258m 258-259m 259-260m 260-261m 261-262m 262-263m 263-264m 264-265m 265-266m 266-267m 267-268m 268-269m 269-270m 270-271m 271-272m 272-273m 273-274m 274-275m 275-276m 276-277m 277-278m 278-279m 279-280m 280-281m 281-282m 282-283m 283-284m 284-285m 285-286m 286-287m 287-288m 288-289m 289-290m 290-291m 291-292m 292-293m 293-294m 294-295m 295-296m 296-297m 297-298m 298-299m 299-300m 300-301m 301-302m 302-303m 303-304m 304-305m 305-306m 306-307m 307-308m 308-309m 309-310m 310-311m 311-312m 312-313m 313-314m 314-315m 315-316m 316-317m 317-318m 318-319m 319-320m 320-321m 321-322m 322-323m 323-324m 324-325m 325-326m 326-327m 327-328m 328-329m 329-330m 330-331m 331-332m 332-333m 333-334m 334-335m 335-336m 336-337m 337-338m 338-339m 339-340m 340-341m 341-342m 342-343m 343-344m 344-345m 345-346m 346-347m 347-348m 348-349m 349-350m 350-351m 351-352m 352-353m 353-354m 354-355m 355-356m 356-357m 357-358m 358-359m 359-360m 360-361m 361-362m 362-363m 363-364m 364-365m 365-366m 366-367m 367-368m 368-369m 369-370m 370-371m 371-372m 372-373m 373-374m 374-375m 375-376m 376-377m 377-378m 378-379m 379-380m 380-381m 381-382m 382-383m 383-384m 384-385m 385-386m 386-387m 387-388m 388-389m 389-390m 390-391m 391-392m 392-393m 393-394m 394-395m 395-396m 396-397m 397-398m 398-399m 399-400m 400-401m 401-402m 402-403m 403-404m 404-405m 405-406m 406-407m 407-408m 408-409m 409-410m 410-411m 411-412m 412-413m 413-414m 414-415m 415-416m 416-417m 417-418m 418-419m 419-420m 420-421m 421-422m 422-423m 423-424m 424-425m 425-426m 426-427m 427-428m 428-429m 429-430m 430-431m 431-432m 432-433m 433-434m 434-435m 435-436m 436-437m 437-438m 438-439m 439-440m 440-441m 441-442m 442-443m 443-444m 444-445m 445-446m 446-447m 447-448m 448-449m 449-450m 450-451m 451-452m 452-453m 453-454m 454-455m 455-456m 456-457m 457-458m 458-459m 459-460m 460-461m 461-462m 462-463m 463-464m 464-465m 465-466m 466-467m 467-468m 468-469m 469-470m 470-471m 471-472m 472-473m 473-474m 474-475m 475-476m 476-477m 477-478m 478-479m 479-480m 480-481m 481-482m 482-483m 483-484m 484-485m 485-486m 486-487m 487-488m 488-489m 489-490m 490-491m 491-492m 492-493m 493-494m 494-495m 495-496m 496-497m 497-498m 498-499m 499-500m 500-501m 501-502m 502-503m 503-504m 504-505m 505-506m 506-507m 507-508m 508-509m 509-510m 510-511m 511-512m 512-513m 513-514m 514-515m 515-516m 516-517m 517-518m 518-519m 519-520m 520-521m 521-522m 522-523m 523-524m 524-525m 525-526m 526-527m 527-528m 528-529m 529-530m 530-531m 531-532m 532-533m 533-534m 534-535m 535-536m 536-537m 537-538m 538-539m 539-540m 540-541m 541-542m 542-543m 543-544m 544-545m 545-546m 546-547m 547-548m 548-549m 549-550m 550-551m 551-552m 552-553m 553-554m 554-555m 555-556m 556-557m 557-558m 558-559m 559-560m 560-561m 561-562m 562-563m 563-564m 564-565m 565-566m 566-567m 567-568m 568-569m 569-570m 570-571m 571-572m 572-573m 573-574m 574-575m 575-576m 576-577m 577-578m 578-579m 579-580m 580-581m 581-582m 582-583m 583-584m 584-585m 585-586m 586-587m 587-588m 588-589m 589-590m 590-591m 591-592m 592-593m 593-594m 594-595m 595-596m 596-597m 597-598m 598-599m 599-600m 600-601m 601-602m 602-603m 603-604m 604-605m 605-606m 606-607m 607-608m 608-609m 609-610m 610-611m 611-612m 612-613m 613-614m 614-615m 615-616m 616-617m 617-618m 618-619m 619-620m 620-621m 621-622m 622-623m 623-624m 624-625m 625-626m 626-627m 627-628m 628-629m 629-630m 630-631m 631-632m 632-633m 633-634m 634-635m 635-636m 636-637m 637-638m 638-639m 639-640m 640-641m 641-642m 642-643m 643-644m 644-645m 645-646m 646-647m 647-648m 648-649m 649-650m 650-651m 651-652m 652-653m 653-654m 654-655m 655-656m 656-657m 657-658m 658-659m 659-660m 660-661m 661-662m 662-663m 663-664m 664-665m 665-666m 666-667m 667-668m 668-669m 669-670m 670-671m 671-672m 672-673m 673-674m 674-675m 675-676m 676-677m 677-678m 678-679m 679-680m 680-681m 681-682m 682-683m 683-684m 684-685m 685-686m 686-687m 687-688m 688-689m 689-690m 690-691m 691-692m 692-693m 693-694m 694-695m 695-696m 696-697m 697-698m 698-699m 699-700m 700-701m 701-702m 702-703m 703-704m 704-705m 705-706m 706-707m 707-708m 708-709m 709-710m 710-711m 711-712m 712-713m 713-714m 714-715m 715-716m 716-717m 717-718m 718-719m 719-720m 720-721m 721-722m 722-723m 723-724m 724-725m 725-726m 726-727m 727-728m 728-729m 729-730m 730-731m 731-732m 732-733m 733-734m 734-735m 735-736m 736-737m 737-738m 738-739m 739-740m 740-741m 741-742m 742-743m 743-744m 744-745m 745-746m 746-747m 747-748m 748-749m 749-750m 750-751m 751-752m 752-753m 753-754m 754-755m 755-756m 756-757m 757-758m 758-759m 759-760m 760-761m 761-762m 762-763m 763-764m 764-765m 765-766m 766-767m 767-768m 768-769m 769-770m 770-771m 771-772m 772-773m 773-774m 774-775m 775-776m 776-777m 777-778m 778-779m 779-780m 780-781m 781-782m 782-783m 783-784m 784-785m 785-786m 786-787m 787-788m 788-789m 789-790m 790-791m 791-792m 792-793m 793-794m 794-795m 795-796m 796-797m 797-798m 798-799m 799-800m 800-801m 801-802m 802-803m 803-804m 804-805m 805-806m 806-807m 807-808m 808-809m 809-810m 810-811m 811-812m 812-813m 813-814m 814-815m 815-816m 816-817m 817-818m 818-819m 819-820m 820-821m 821-822m 822-823m 823-824m 824-825m 825-826m 826-827m 827-828m 828-829m 829-830m 830-831m 831-832m 832-833m 833-834m 834-835m 835-836m 836-837m 837-838m 838-839m 839-840m 840-841m 841-842m 842-843m 843-844m 844-845m 845-846m 846-847m 847-848m 848-849m 849-850m 850-851m 851-852m 852-853m 853-854m 854-855m 855-856m 856-857m 857-858m 858-859m 859-860m 860-861m 861-862m 862-863m 863-864m 864-865m 865-866m 866-867m 867-868m 868-869m 869-870m 870-871m 871-872m 872-873m 873-874m 874-875m 875-876m 876-877m 877-878m 878-879m 879-880m 880-881m 881-882m 882-883m 883-884m 884-885m 885-886m 886-887m 887-888m 888-889m 889-890m 890-891m 891-892m 892-893m 893-894m 894-895m 895-896m 896-897m 897-898m 898-899m 899-900m 900-901m 901-902m 902-903m 903-904m 904-905m 905-906m 906-907m 907-908m 908-909m 909-910m 910-911m 911-912m 912-913m 913-914m 914-915m 915-916m 916-917m 917-918m 918-919m 919-920m 920-921m 921-922m 922-923m 923-924m 924-925m 925-926m 926-927m 927-928m 928-929m 929-930m 930-931m 931-932m 932-933m 933-934m 934-935m 935-936m 936-937m 937-938m 938-939m 939-940m 940-941m 941-942m 942-943m 943-944m 944-945m 945-946m 946-947m 947-948m 948-949m 949-950m 950-951m 951-952m 952-953m 953-954m 954-955m 955-956m 956-957m 957-958m 958-959m 959-960m 960-961m 961-962m 962-963m 963-964m 964-965m 965-966m 966-967m 967-968m 968-969m 969-970m 970-971m 971-972m 972-973m 973-974m 974-975m 975-976m 976-977m 977-978m 978-979m 979-980m 980-981m 981-982m 982-983m 983-984m 984-985m 985-986m 986-987m 987-988m 988-989m 989-990m 990-991m 991-992m 992-993m 993-994m 994-995m 995-996m 996-997m 997-998m 998-999m 999-1000m 1000-1001m 1001-1002m 1002-1003m 1003-1004m 1004-1005m 1005-1006m 1006-1007m 1007-1008m 1008-1009m 1009-1010m 1010-1011m 1011-1012m 1012-1013m 1013-1014m 1014-1015m 1015-1016m 1016-1017m 1017-1018m 1018-1019m 1019-1020m 1020-1021m 1021-1022m 1022-1023m 1023-1024m 1024-1025m 1025-1026m 1026-1027m 1027-1028m 1028-1029m 1029-1030m 1030-1031m 1031-1032m 1032-1033m 1033-1034m 1034-1035m 1035-1036m 1036-1037m 1037-1038m 1038-1039m 1039-1040m 1040-1041m 1041-1042m 1042-1043m 1043-1044m 1044-1045m 1045-1046m 1046-1047m 1047-1048m 1048-1049m 1049-1050m 1050-1051m 1051-1052m 1052-1053m 1053-1054m 1054-1055m 1055-1056m 1056-1057m 1057-1058m 1058-1059m 1059-1060m 1060-1061m 1061-1062m 1062-1063m 1063-1064m 1064-1065m 1065-1066m 1066-1067m 1067-1068m 1068-1069m 1069-1070m 1070-1071m 1071-1072m 1072-1073m 1073-1074m 1074-1075m 1075-1076m 1076-1077m 1077-1078m 1078-1079m 1079-1080m 1080-1081m 1081-1082m 1082-1083m 1083-1084m 1084-1085m 1085-1086m 1086-1087m 1087-1088m 1088-1089m 1089-1090m 1090-1091m 1091-1092m 1092-1093m 1093-1094m 1094-1095m 1095-1096m 1096-1097m 1097-1098m 1098-1099m 1099-1100m 1100-1101m 1101-1102m 1102-1103m 1103-1104m 1104-1105m 1105-1106m 1106-1107m 1107-1108m 1108-1109m 1109-1110m 1110-1111m 1111-1112m 1112-1113m 1113-1114m 1114-1115m 1115-1116m 1116-1117m 1117-1118m 1118-1119m 1119-1120m 1120-1121m 1121-1122m 1122-1123m 1123-1124m 1124-1125m 1125-1126m 1126-1127m 1127-1128m 1128-1129m 1129-1130m 1130-1131m 1131-1132m 1132-1133m 1133-1134m 1134-1135m 1135-1136m 1136-1137m 1137-1138m 1138-1139m 1139-1140m 1140-1141m 1141-1142m 1142-1143m 1143-1144m 1144-1145m 1145-1146m 1146-1147m 1147-1148m 1148-1149m 1149-1150m 1150-1151m 1151-1152m 1152-1153m 1153-1154m 1154-1155m 1155-1156m 1156-1157m 1157-1158m 1158-1159m 1159-1160m 1160-1161m 1161-1162m 1162-1163m 1163-1164m 1164-1165m 1165-1166m 1166-1167m 1167-1168m 1168-1169m 1169-1170m 1170-1171m 1171-1172m 1172-1173m 1173-1174m 1174-1175m 1175-1176m 1176-1177m 1177-1178m 1178-1179m 1179-1180m 1180-1181m 1181-1182m |
|-------|---------|----------|---|
|-------|---------|----------|---|

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

A
B
C
D
E

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.

1
2
3
4
5

DBH Measurement Rules

1. MEASURE ON DBH
 2. MEASURE ON LEVEL SURFACE
 3. MEASURE ON TRUNK
 4. MEASURE ON TRUNK
 5. MEASURE ON TRUNK
 6. MEASURE ON TRUNK
 7. MEASURE ON TRUNK
 8. MEASURE ON TRUNK
 9. MEASURE ON TRUNK
 10. MEASURE ON TRUNK

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 6 7 8 9 10



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

Presence
X: yes

of Plants
1: 1-10
2: 11-50
3: 51-100
4: 101-1,000
5: >1,000

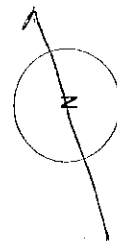
of Plants
1: 1-10
2: 11-50
3: 51-100
4: 101-1,000
5: >1,000

Presence
X: yes

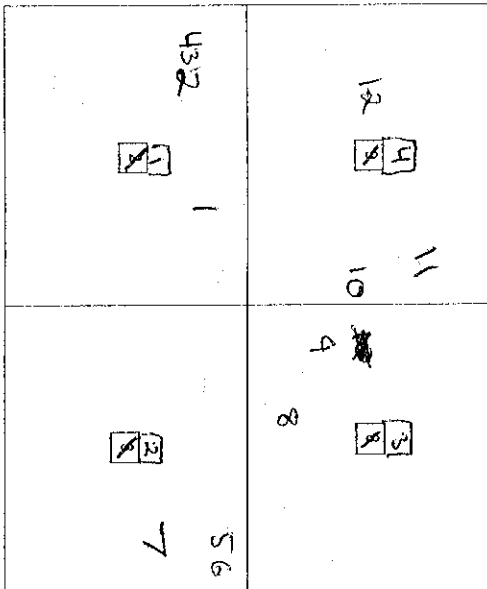
Note: For Ground-cover plants record "stem #" but in comment field describe # of colonies and patch size (S,M,L)

| Tree ID | Species | Dead | Voucher # | DBH (cm) | HL (m) | ASH condition | Dead condition | # Exit holes | Epiloric present | Woodpecker holes |
|---------|--------------------|------|-----------|----------|--------|---------------|----------------|--------------|------------------|------------------|
| 1 | Fraxinus americana | X | | 11.6 | 1.37 | 5 | C | 0 | 0 | 0 |
| 2 | Fraxinus americana | | | 13.7 | 1.37 | 4 | | 0 | 0 | 0 |
| 3 | Fraxinus americana | | | 10.6 | 1.37 | 3 | | 0 | 0 | 0 |
| 4 | Fraxinus americana | | | 10.4 | 1.37 | 4 | | 0 | 0 | 0 |
| 5 | Fraxinus americana | | | 15.8 | 1.37 | 2 | | 0 | 1 | 0 |
| 6 | Fraxinus americana | | | 32.3 | 1.37 | 2 | | 0 | 0 | 0 |
| 7 | Fraxinus americana | | | 16.3 | 1.37 | 4 | | 0 | 0 | 0 |
| 8 | Fraxinus americana | | | 16.4 | 1.37 | 1 | | 0 | 0 | 0 |
| 9 | Fraxinus americana | | | 10.5 | 1.37 | 4 | | 0 | 0 | 0 |
| 10 | Fraxinus americana | | | 10.7 | 1.37 | 4 | | 0 | 0 | 0 |
| 11 | Fraxinus americana | | | 11.0 | 1.37 | 3 | | 0 | 0 | 0 |
| 12 | Fraxinus americana | | | 16.6 | 1.37 | 2 | | 0 | 0 | 0 |
| 13 | | | | | | | | | | |
| 14 | | | | | | | | | | |
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| 25 | | | | | | | | | | |

* If Ash Condition scores 5 (dead) provide breakup score (A-E)
Count EAB exit holes 1.25m² x 21.5m
Woodpecker and epicormic marked present (1) or absent (0)



*** Change intensive module numbers when necessary



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

Project label: PCAP Project Name: Q1M52e11

Plot No.: 1167

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

Soil pit module # 4 (one per entire plot)

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

| | | |
|------|------------------|-----------------|
| 5 cm | matrix color | 10YR4/3 |
| | mottle color | — |
| | %mottle | — |
| | oxid roots | Y |
| | texture* | 1 |
| | redox features** | Y |
| | hydr. cond.*** | I S <u>AD</u> D |

| | | |
|-------|------------------|-----------------|
| 20 cm | matrix color | 10YR5/3 |
| | mottle color | — |
| | %mottle | — |
| | oxid roots | Y |
| | texture* | 1 |
| | redox features** | Y |
| | hydr. cond.*** | I S <u>AD</u> D |

| | | |
|--|------------------|-----------------|
| | matrix color | 10YR5/3 |
| | mottle color | — |
| | %mottle | — |
| | oxid roots | Y |
| | texture* | 1 |
| | redox features** | Y |
| | hydr. cond.*** | I S <u>AD</u> D |

| | |
|------------------------------|---------------------------|
| Soil Collection Module | Horizon (A, B, C) |
| 2,3,8,9 composted | A |
| Soil Description/notes: | |
| Web Soil Survey information: | |
| Soil Series/Type: | <u>Mahoning silt loam</u> |
| Soil Series Source: | Ohio Soil Survey |
| Landform type: | <u>Till plain</u> |
| Parent Material: | <u>Till</u> |
| DRAINAGE* | |

- ☐ Excessively drained
- ☐ Somewhat excessively
- ☐ Well drained
- ☐ Moderately well dr.
- ☒ Somewhat poorly dr.
- ☐ Poorly dr.
- ☐ Very poorly dr.
- ☐ Impermeable surface

* e.g. hydrogen sulfide odor; gleying, etc.
 ** Circle one:
 I=undrained S=saturated M=moist D=dry
Notes: include evidence of earthworms (worms, castings, midlines)
No worms present

STANDING BIOMASS (required for emergent wetlands): collected in 0.1m clip plots (32x32 cm) from corners 1 and 3 in each intensive module. Required for VTB1-E score calculation. C7=check when collected

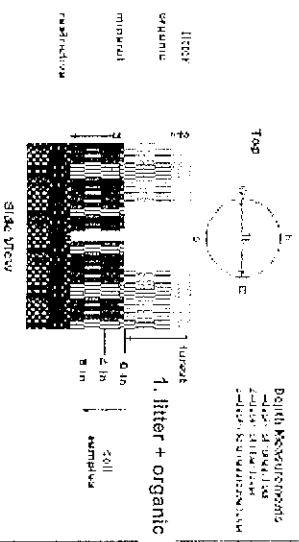
| Module # | C7 | Corner | Corner |
|----------|----|--------|--------|
| | | | |
| | | | |
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| | | | |
| | | | |

SOIL DEPTH MEASUREMENT INSTRUCTIONS: 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) | 3 restrict. depth (cm) | water depth (cm) | sat soil depth (cm) |
|------|-------------------------------|---------------------|------------------------|------------------|---------------------|
| 1 | 0.25 | 0.25 | 48 | 0 | >30 |
| 2 | 0 | 0 | 72 | 0 | >30 |
| 3 | 0 | 0 | 35 | 0 | >30 |
| 4 | 0 | 0 | 44 | 0 | >30 |

restrictive depth more than 80"

Length of soil probe = 125 cm
 * Use Web Soil Survey for #3 Restrictive layer dept.



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

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

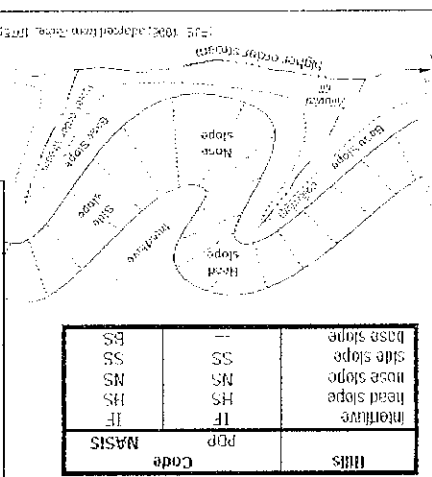
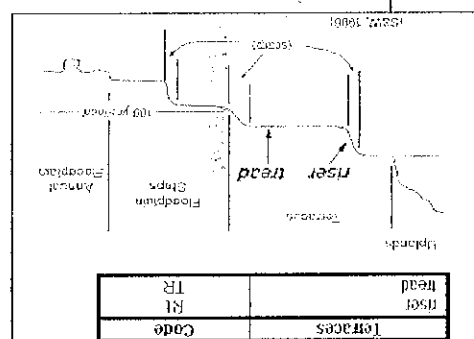
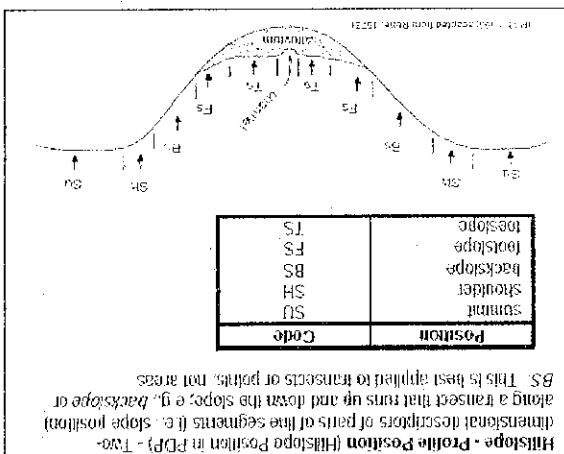
TEMPORARILY FLOODED: Surface water present for brief periods during growing season, but water table usually lies well below soil surface. Often characterizes flood-plain levees and lower terraces. Equivalent to Cowardin's Temporary modifier

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

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 Semipermanently Flooded modifiers

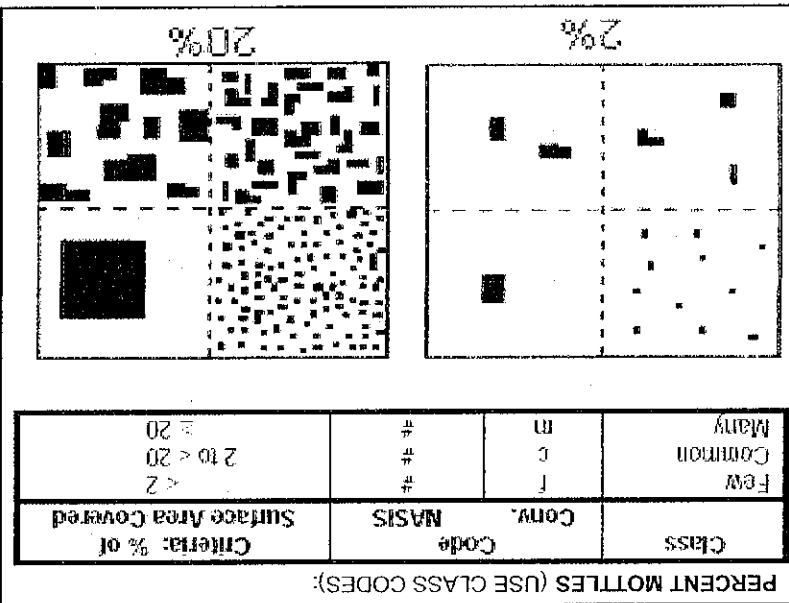
PERMANENTLY FLOODED: Water covers the land surface at all times of the year in all years. Equivalent to Cowardin's "permanently flooded"

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



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

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



Geomorphic Component - Three-dimensional descriptors of parts of landforms or microtopographies that are best applied to areas. Unique descriptions are available for Hills, Terraces, Mountains, and Flat Plains; e.g., for Hills) nose slope or NS

| COVER BY STRATA: estimate using independant 5 m x 5 m x 5 m (18.75) | | |
|--|---------------------|-----------------|
| Strata | Height Range (m) | Total Cover (%) |
| Tree | 5 - 4 | 88 |
| Shrub | 0.5 - 5 | 93 |
| Herb | 0 - 0.5 | 98 |
| Floating* | | 0 |
| Algae*** | | 0 |

| EARTH SURFACE & GROUND COVER | | | |
|--------------------------------|--------------|---------|---|
| Underlying Earth Surface* | Ground Cover | Percent | |
| Grass = 100% | Percent | | |
| Forest | 0 | | 3 |
| Mineral Soil | 100 | | 3 |
| Gravel/Cobble* | 0 | | 3 |
| Boulder** | 0 | | 3 |
| Bedrock | 0 | | 3 |
| *Gravel/Cobble = 1/16 to 10 in | | | |
| **Boulder = > 10 in | | | |
| *** > 25 cm in diameter | | | |
| **** < 45 cm in diameter | | | |
| Other | | | 3 |

Remember: in a standard 2x5 plot each module = 10% cover

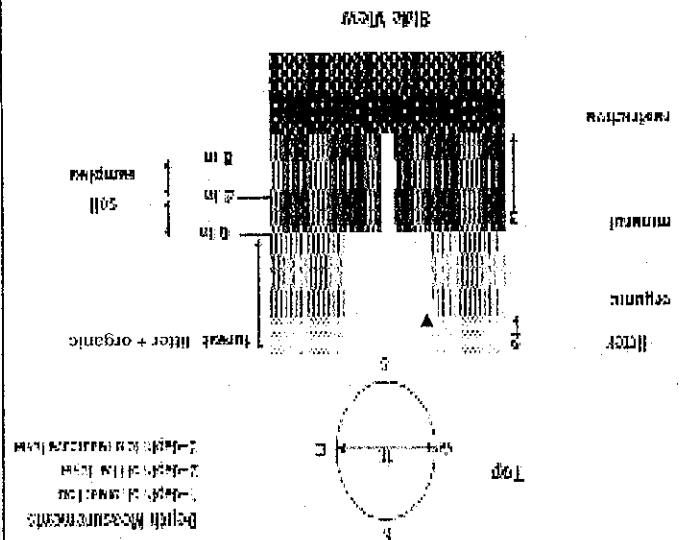
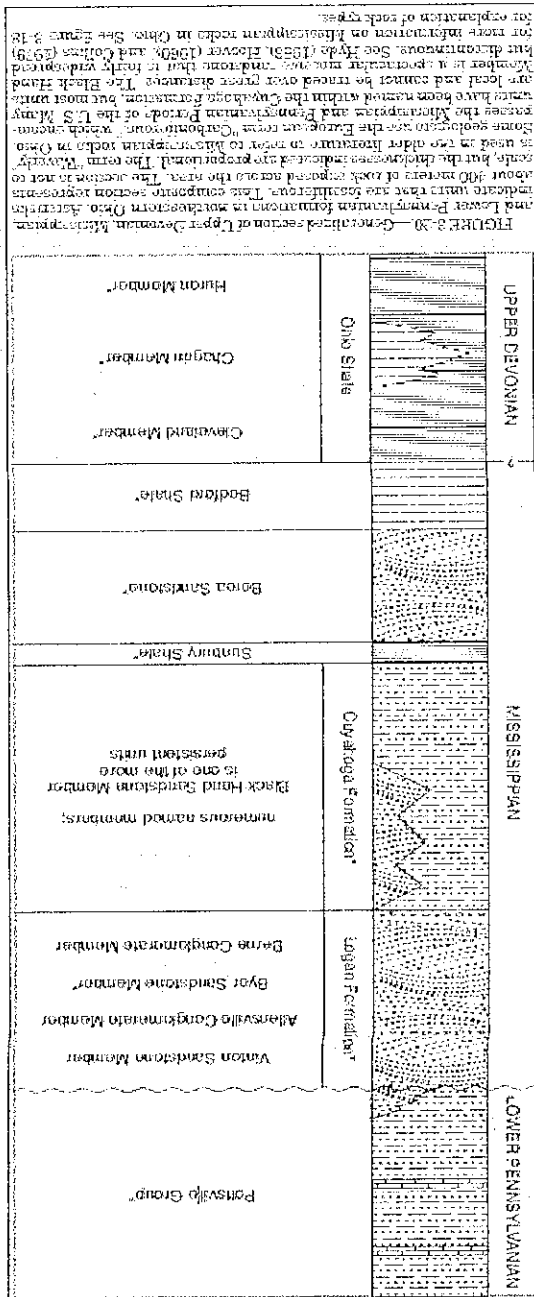
MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only

- Part 1: For each feature, select one or select two and average the two. NOTE: If profile is of a slope automatically gas marked based on steepness (1-3)
 Slope 1 = slight elevation (grade accents module a little) Slope 2 = falls on slope < 20° Slope 3 = maximum steepness that can be safely sampled ~45°
- 0 Feature is absent or undetectably absent (GC Course Flag)
 1 Feature is present in very small amounts (e.g. more common of low quality)
 2 Feature is present in moderate amounts, but not of highest quality or critical amounts of high quality
 3 Feature is present in moderate or greater amounts and of highest quality

| Module | Cover | c.w.d. - count for pieces with minimum ten length | | | | microtopo. | microtopo. |
|--------|-------|---|--|---|---|--|--|
| | | no. of mosses depth 3 10x10m (count) | no. of hummocks depth 2 3.0x3.0m (count) | no. of depressions depth 1 10x10m (count) | c.w.d. (2-12 cm) depth 1 10x10m (count) | c.w.d. (12-40 cm) depth 1 10x10m (count) | c.w.d. >40 cm depth 1 10x10m (count) |
| 1 | 0 | 0 | 0 | 2 | 3 | 1 | 2 |
| 2 | 0 | 0 | 0 | 1 | 2 | 0 | 1 |
| 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

NOTE: 1. mosses and hummocks are counted in BOTH passed quadrats corners but counts are averaged.
 2. macro depressions = microtopographic depressions with modules. These may extend into one module and be counted again.
 3. c.w.d. = coarse woody debris
 4. microtopo. = microtopographic features
 5. microtopo. = microtopographic features

| TRAIL INFORMATION: If trail falls in plot record type and cover for each | |
|--|---------|
| Type | % Cover |
| Trail Purpose | |
| Trail Surface | |
| Trail Condition | |
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| 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 <0.5 m | |
| 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. | |

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial):

Site ID: PCAP MS 1167

DATE: 07/13/2011

Location:

☐ AA Center
 ☐ N
 ☒ S
 ☐ E
 ☐ W

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

| 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"/> | | 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 Browsed (WILD 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 <3' 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 | <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.

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 (initial):

Site ID: RCPH51167

DATE: 07/13/2011

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 Watermiloil | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Purple Loosetife | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Johnson Grass | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Water hyacinth | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Knotted | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Kudzu | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Yellow Floating Heart | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Japanese Knotweed | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Multiflora Rose | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Giant Salvinia | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Perennial Pepperweed | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Common Buckthorn | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Garlic Mustard | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Giant Reed | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Himalayan Blackberry | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Poison Hemlock | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Cheatgrass | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Tamarisk | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Mile-A-Minute Weed | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Red Canary Grass | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Other: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Birdfoot Trefoil | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Common Reed | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Other: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Canada Thistle | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Leaky Spurge | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Other: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | Other: | <input type="checkbox"/> | <input type="checkbox"/> | <input 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 ☐ N3 ☒ S3 ☐ E3 ☐ W3 ☐ Nearest practicable location (flag and comment below)

Flag

Use Decimal Degrees; NAD83

Latitude North 41.29266 Longitude West 81.78426

Comments

Flag

Plots 2 & 3 fall outside Metroparks property.

1966623548

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

Reviewed by (initials):




















































































































DATE: 07/13/2011

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

☐ Plot 1 ☐ Plot 2 ☐ Plot 3

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:  | Buffer Plot 2 | Canopy Type:  | | | | | Absent:  | Buffer Plot 3 | Canopy Type:  | | | | | Absent:  |
|---------------------------------------|--|---|---|---|---|---|---------------------------------------|--|--|---|---|---|---|---|--|--|---|---|---|---|
| | Leaf Type:  | | | | | | | Flag | Leaf Type:  | | | | | | Flag | Leaf Type:  | | | | |
| Big Trees (>0.3m DBH) |  |  |  |  |  | | Big Trees (>0.3m DBH) | |  |  |  |  | | Big Trees (>0.3m DBH) | |  |  |  |  |  |
| Small Trees (<0.3m DBH) |  |  |  |  |  | | Small Trees (<0.3m DBH) |  |  |  |  | | Small Trees (<0.3m DBH) |  |  |  |  |  | | |
| Woody Shrubs, Saplings (0.5m-5m HIGH) |  |  |  |  |  | | Woody Shrubs, Saplings (0.5m-5m HIGH) |  |  |  |  | | Woody Shrubs, Saplings (0.5m-5m HIGH) |  |  |  |  |  | | |
| Woody Shrubs, Saplings (<0.5m HIGH) |  |  |  |  |  | | Woody Shrubs, Saplings (<0.5m HIGH) |  |  |  |  | | Woody Shrubs, Saplings (<0.5m HIGH) |  |  |  |  |  | | |
| Herbs, Forbs and Grasses |  |  |  |  |  | | Herbs, Forbs and Grasses |  |  |  |  | | Herbs, Forbs and Grasses |  |  |  |  |  | | |
| Bare ground |  |  |  |  |  | | Bare ground |  |  |  |  | | Bare ground |  |  |  |  |  | | |
| Litter, duff |  |  |  |  |  | | Litter, duff |  |  |  |  | | Litter, duff |  |  |  |  |  | | |
| Rock |  |  |  |  |  | | Rock |  |  |  | | | | | | | | | | |

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 Red (IMPEDE FLOW) | <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/Spoil 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/Root 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 (SHIELD FLOW) | <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"/> | |

| 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"/> | | 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 checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="checkbox"/> |
| 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 Browsed (WILD OR DOMESTIC) | <input checked="" 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 <3" 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 | <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 (BLACKFLY) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |

2428168304

Buffer Sample Plots 05/27/2011

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

Reviewed by (initials):

Site ID: PCAPWS1167

DATE: 07/13/2011

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 Watermilloff | | | | | Purple Loosestrife | | | | | Johnson Grass | | | | |
| Water hyacinth | | | | | Knobweed | | | | | Kudzu | | | | |
| Yellow Floating Heart | | | | | Japanese Knotweed | | | | | Mulliflora Rose | | | | |
| Giant Salvinia | | | | | Perennial Pepperweed | | | | | Common Buckhorn | | | | |
| Garlic Mustard | | | | | Giant Reed | | | | | Himalayan Blackberry | | | | |
| Poison Hemlock | | | | | Cheatgrass | | | | | Tamansk | | | | |
| Millie-A-Minute Weed | | | | | Red Canary Grass | | | | | Other: | | | | |
| Birdfoot Trefoil | | | | | Common Reed | | | | | Other: | | | | |
| Canada Thistle | | | | | Lealy Spurge | | | | | Other: | | | | |

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 41.29291 Longitude West 81.78934
 Use Decimal Degrees; NAD83

Flag

Comments

1 Deer trail

7966623548

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

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial):

Site ID: PCAP MS1167

DATE: 6/7/13/2011

Location:

☐ AA Center ☐ N ☐ S ☐ E ☒ W

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

| 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"/> | | 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 Browsed (WILD 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 <3" 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 | <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.

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 (Initial):

Site ID: RARMS1167

DATE: 07/13/2011

☑ 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 Watermillet | | | | | Purple Loosestrife | | | | | Johnson Grass | | | | |
| Water hyacinth | | | | | Knotweed | | | | | Kudzu | | | | |
| Yellow Floating Heart | | | | | Japanese Knotweed | | | | | Multiflora Rose | | | | |
| Giant Salvinia | | | | | Perennial Pepperweed | | | | | Common Buckhorn | | | | |
| Garlic Mustard | | | | | Giant Reed | | | | | Himalayan Blackberry | | | | |
| Poison Hemlock | | | | | Cheatgrass | | | | | Tamarsk | | | | |
| Mill A-Minute Weed | | | | | Reed Canary Grass | | | | | Other: | | | | |
| Birdfoot Trefoil | | | | | Common Reed | | | | | Other: | | | | |
| Canada Thistle | | | | | Leaky Spurge | | | | | Other: | | | | |
| | | | | | | | | | | Other: | | | | |

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)

Latitude North 41 29 27.4 Longitude West 81 79 06.6
 Use Decimal Degrees; NAD83

Flag

Comments

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial):

Site ID: PCAP MS 1167

DATE: 07/13/2011

Location:

☐ AA Center
 ☒ N
 ☐ S
 ☐ E
 ☐ W

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

| 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"/> | | 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 checked="" type="radio"/> | |
| Military | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Shrub Layer Browsed (WILD OR DOMESTIC) | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | | Offroad vehicle damage | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | 1 |
| Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Highly Grazed Grasses (OVERALL <3" 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 | <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.

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 (initial):

Site ID: BPAP M5 11C7

DATE: 8/7/2011

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 | Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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Canada Thistle | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Leaty Spurge | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Common Reed | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Reed Canary Grass | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Other: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Other: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Other: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Canada Thistle | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Leaty Spurge | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Common Reed | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Reed Canary Grass | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Other: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Other: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Other: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Canada Thistle | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Leaty Spurge | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Common Reed | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Reed Canary Grass | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Other: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Other: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Other: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Canada Thistle | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Leaty Spurge | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Common Reed | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Reed Canary Grass | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Other: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Other: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Other: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Canada Thistle | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Leaty Spurge | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Common Reed | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Reed Canary Grass | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Other: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Other: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Other: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Canada Thistle | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Leaty Spurge | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Common Reed | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Reed Canary Grass | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Other: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Other: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Other: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Canada Thistle | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Leaty Spurge | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Common Reed | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Reed Canary Grass | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Other: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Other: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Other: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Canada Thistle | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Leaty Spurge | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Common Reed | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Reed Canary Grass | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Other: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Other: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Other: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Canada Thistle | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Leaty Spurge | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Common Reed | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Reed Canary Grass | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Other: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Other: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Other: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Canada Thistle | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Leaty Spurge | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Common Reed | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Reed Canary Grass | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Other: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Other: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Other: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Canada Thistle | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Leaty Spurge | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Common Reed | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Reed Canary Grass | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Other: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Other: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Other: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Canada Thistle | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Leaty Spurge | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Common Reed | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Reed Canary Grass | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Other: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Other: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Other: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Canada Thistle | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Leaty Spurge | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Common Reed | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Reed Canary Grass | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Other: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Other: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Other: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Canada Thistle | |

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)

Latitude North 41 29 39 0 Longitude West 81 78 93 7

Use Decimal Degrees; NAD83

Flag

Comments 4-lane trail runs through the NW quadrant.

7966623548

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

Reviewed by (initial):

Site ID: PCAP MS 1167












































































































DATE: 07/13/2011


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

☐ Plot 1 ☐ Plot 2 ☐ Plot 3

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 | |
|---------------------------------------|--|---|---|---|---|------|--|---------------------------------------|--|---|---|--|--|------|--|---------------------------------------|--|---|---|---|---|------|--|
| | Leaf Type:  | | | | | | | | Leaf Type:  | | | | | | | | Leaf Type:  | | | | | | |
| Big Trees (>0.3m DBH) |  |  |  |  |  | | | Big Trees (>0.3m DBH) |  |  |  |  |  | | | Big Trees (>0.3m DBH) |  |  |  |  |  | | |
| Small Trees (<0.3m DBH) |  |  |  |  |  | | | Small Trees (<0.3m DBH) |  |  |  |  |  | | | Small Trees (<0.3m DBH) |  |  |  |  |  | | |
| Woody Shrubs, Saplings (0.5m-5m HIGH) |  |  |  |  |  | | | Woody Shrubs, Saplings (0.5m-5m HIGH) |  |  |  |  |  | | | Woody Shrubs, Saplings (0.5m-5m HIGH) |  |  |  |  |  | | |
| Woody Shrubs, Saplings (<0.5m HIGH) |  |  |  |  |  | | | Woody Shrubs, Saplings (<0.5m HIGH) |  |  |  |  |  | | | Woody Shrubs, Saplings (<0.5m HIGH) |  |  |  |  |  | | |
| Herbs, Forbs and Grasses |  |  |  |  |  | | | Herbs, Forbs and Grasses |  |  |  |  |  | | | Herbs, Forbs and Grasses |  |  |  |  |  | | |
| Bare ground |  |  |  |  |  | | | Bare ground |  |  |  |  |  | | | Bare ground |  |  |  |  |  | | |
| Litter, duff |  |  |  |  |  | | | Litter, duff |  |  |  | | | | | | | | | | | | |

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 (IMPEDE FLOW) | <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 CROPS FIELD) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Golf Course | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Fill/Spoil 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/Root 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"/> | |

| 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"/> | | 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 Browsed (WILD OR DOMESTIC) | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" 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 1-3" 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 | <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.

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

Buffer Sample Plots 05/27/2011

2428168304

40-50m N of E3, crossed old ditch/channel and frequently used 4-wheeler trail

Fringilla albicollis abundant, Thicket-forming
Spermatophytes recorded using GPS unit

| Flag | Comments |
|------|----------|
|------|----------|

Use Decimal Degrees; NAD83

Latitude North 41.29303 Longitude West 81.78751

Location of coordinates (choose one):

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

664

Provide GPS coordinates at the center of the Buffer Plot (#3) at the far end of each Buffer Transsect 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 Transsects 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.

PLOT COORDINATES

| 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 |
|-------------------------------|-----------------------|-----------------------|-----------------------|------|-------------------------------|-----------------------|-----------------------|-----------------------|------|-------------------------------|----------------------------------|----------------------------------|----------------------------------|------|
| Furarian 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"/> | | Knolweed | <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"/> | | Muliflora Rose | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" 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 Buckhorn | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | F/ |
| Garlic Mustard | <input 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"/> | |
| Mill-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"/> | |
| Birdfoot 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"/> | |

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

Site ID:

DATE:

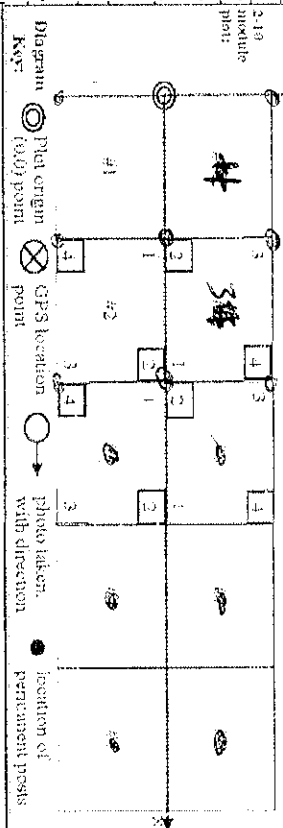
Reviewed by (initials):

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

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

| | |
|--|-------------|
| GENERAL INFORMATION | |
| Project Label: | PCAP |
| Project Name: | |
| Plot Name: | |
| Plot No.: | 167 |
| <input type="checkbox"/> Level 4 (no nested corners sampled) <input checked="" type="checkbox"/> Level 5 (nested corners sampled) | |
| Date (mm/dd/yyyy): | / / |
| End date (if > 1 day): | / / |
| Party: | Role** |
| | Plot leader |

| | |
|--|--|
| LOCATION | |
| State: | OH County: |
| Quadrangle: | |
| Local Place Names: | |
| Landowner: | |
| X-axis Bearing of plot: | [114]° |
| Data Confidentiality: | |
| Check one: | <input 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 |
| GPS location in plot x=0 to 5, y=-1.0 to 1.0: | |
| x = 0 y = 0 (base of plot x=0, y=0) | |
| Coordinate system: | Coord. Units |
| <input checked="" type="checkbox"/> Lat/Long <input type="checkbox"/> UTM <input type="checkbox"/> Stateplane <input type="checkbox"/> Other (specify): | <input type="checkbox"/> deg <input type="checkbox"/> deg min <input type="checkbox"/> m <input type="checkbox"/> ft |
| Datum: | <input checked="" type="checkbox"/> NAD83/WGS84 <input type="checkbox"/> NAD27 |
| Latitude: | 41.89396 |
| Longitude: | 81.78928 |
| Coord. Accuracy: | ft in ft ±.3 |
| GPS File Name: | 167A |
| Plot size for cover data: | 0.04 (hectares) |
| <input type="checkbox"/> Stems not sampled on this plot <input type="checkbox"/> Stems absent <input checked="" type="checkbox"/> Stems present | Plot size stems: 0.04 (ha) |
| Depth: (1-5) | |
| Intensive modules: 2, 3, 8, 9 | (EDIT IF MODIFIED) |
| Camera No.: | |
| Photo Nos.: | |

| | |
|--|---|
| <p>Diagram Key:</p> <ul style="list-style-type: none"> Plot origin (0,0) point GPS location point photo taken with direction location of permanent posts |  |
| <p>Plot placement: <input type="checkbox"/> Representative <input type="checkbox"/> GRTS <input type="checkbox"/> Random <input type="checkbox"/> Stratified Random</p> | |
| <p>NOTES: include Layout (any unusual shape details), Location (directions and landscape context), Rationale (why here), and Veg Characterization (description of community, dominants, strata, BROWSE). Additional notes in space on back.</p> | |
| <p>Layout - 2x2</p> <p>Retrieval - Point was difficult to find - No top features GPS only Area has lots of shrubs, very diverse. Point lands in Hawthorn grove. Plot is a dead encircling the Hawthorns. N/E of plot is thick Rhynchos shrubs. S. is open area of pines. West is slope</p> | |

Minimum required fields in Bold and Underlined

*Definitions and values in CVI PCAP FORM v. 1.0 and CVS Field Guide

OVER

| CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet | | | |
|---|--|--|--|
| Project Label: | | Project Name: | |
| Project Label: | | Plot No.: | |
| <div style="display: flex; justify-content: space-between; align-items: center;"> <div> CLASSIFICATION <small>(FIT = excellent, good, fair, poor; CONF = high, med, low)</small> Hydrogeomorphic class (WETLANDS ONLY): <input type="checkbox"/> DEPRESSION Fit=___ Conf=___ <input type="checkbox"/> IMPOUNDMENT <input type="checkbox"/> Beaver <input type="checkbox"/> Human Fit=___ Conf=___ <input type="checkbox"/> RIVERINE <input type="checkbox"/> Headwater <input type="checkbox"/> Mainstem <input type="checkbox"/> Channel Fit=___ Conf=___ <input type="checkbox"/> SLOPE (ground water hydrology or on a physical slope) Fit=___ Conf=___ <input type="checkbox"/> FRINGING <input type="checkbox"/> Reservoir <input type="checkbox"/> Natural Lake Fit=___ Conf=___ <input type="checkbox"/> COASTAL (specify subclass) Fit=___ Conf=___ <input type="checkbox"/> BOG (strongly, moderately, weakly ombrotrophic) Fit=___ Conf=___ </div> <div> STAND SIZE <input type="checkbox"/> >1,000 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 type="checkbox"/> 1-3 x plot size <input type="checkbox"/> < plot size </div> </div> | | | |
| OHIO EPA VIBI Plant Community Class (WETLANDS ONLY): <input type="checkbox"/> FOREST <input type="checkbox"/> swamp forest <input type="checkbox"/> bog forest <input type="checkbox"/> forest seep Fit=___ Conf=___ <input type="checkbox"/> EMERGENT <input type="checkbox"/> marsh <input type="checkbox"/> wet meadow <input type="checkbox"/> open bog Fit=___ Conf=___ <input type="checkbox"/> SHRUB <input type="checkbox"/> shrub swamp <input type="checkbox"/> tall sh. bog <input type="checkbox"/> tall sh. fen Fit=___ Conf=___ | | | |
| MODIFIED NATURESERVE CLASS* CODE (on separate form): Fit=___ Conf=___ COMMUNITY NAME: | | | |
| LANDFORM TYPE*: | | | |
| HOMOGENEITY <input type="checkbox"/> Homogeneous <input type="checkbox"/> Compositional trend across the plot <input type="checkbox"/> Conspicuous inclusions <input type="checkbox"/> Irregular/pattern mosaic | | | |
| ADDITIONAL NOTES & DIAGRAMS: (Representativeness of plot to the stand, successional status, maturity, etc.) | | | |

No easy way to this one folks. Park at Royal View and follow the GPS.

Might be able to ask a Drake Rd Resident to cross...

Nasty plot full of Hawthorn and Grass
Reviews a 7.3 on the Breuden Plot Unpleasantness Scale

Grandma

Drake !!

- write in
Notes

SEE ABOUT PARKING.
FOR 1019

(((

|