

CLEVELAND METROPARKS Plant Community Assessment Program: Quality Control Form



Project Label:

PCAP

Plot No: 3387

Date Sampled: 8-2-11 Lead: Mack/Eysenbach

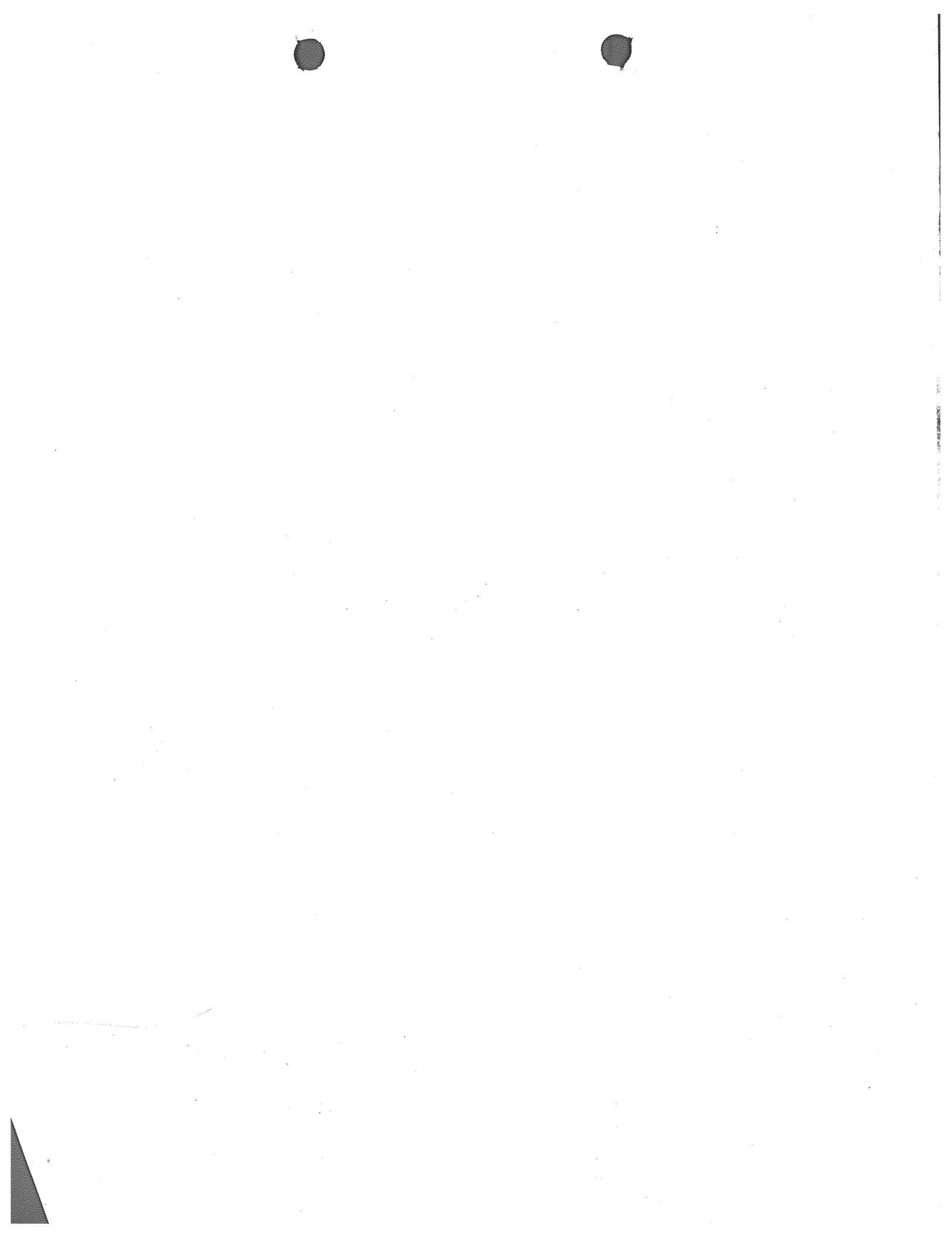
Comment required if item answer is NO

| | | |
|--|--|--|
| Parking/Access outside of Park Boundaries: | <input checked="" type="radio"/> Y <input type="radio"/> N | If yes, write details in Comments section below |
| Field journals completed | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Site sketch made on 1:3000 map? | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Check cover page | <input checked="" type="radio"/> X-axis Bearing of plot recorded | <input checked="" type="radio"/> Y <input type="radio"/> N |
| | <input checked="" type="radio"/> GPS coords. Recorded | <input checked="" type="radio"/> Y <input type="radio"/> N |
| | <input checked="" type="radio"/> North direction recorded | <input checked="" type="radio"/> Y <input type="radio"/> N |
| | <input checked="" type="radio"/> Photographs taken? | <input checked="" type="radio"/> Y <input type="radio"/> N |
| Plot No., Date agreement on all pages? | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Header data completed all pages? | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Cover classes recorded in all Intensive modules | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Browse Level By Species | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Woody stem quality control check | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Invasive plant quality control check | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Ash trees mapped | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Cover by Strata? (confirm cover type) | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Soil samples collected with matching plot #. | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Vouchers labeled on datasheet with initials and number | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Vouchers labeled on collection bag | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Pink flags removed | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Data sheet QA before leaving site? | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Common equipment returned to tub. | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Data sheets scanned? | | Enter date to left 9-12-2011 |
| Final data sheets scanned? | | Enter date to left |
| Buffer Widths measured? | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Web Soil Survey | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Voucher Location | Refrigerator | <input checked="" type="radio"/> Y <input type="radio"/> N |
| (# vouchers collected) | Press (#) | Enter number to left |
| SRE 486 487 | Drier | <input checked="" type="radio"/> Y <input type="radio"/> N |
| | Identified | <input checked="" type="radio"/> Y <input type="radio"/> N |
| | Mounted | <input checked="" type="radio"/> Y <input type="radio"/> N |
| | Thrown away | <input checked="" type="radio"/> Y <input type="radio"/> N |

GRTS point verification: Is plot sampleable?

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

Additional Comments:



CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

| GENERAL INFORMATION | | LOCATION | | Plot No.: | Plot Name: | End date (if > 1 day): | Reason: |
|--|---------------|----------------------------------|----------|---|------------------|---|---------|
| Project Label: | Project Name: | State: | County: | | | | |
| PCAP | | OH | Cuyahoga | No pins | | | |
| 01/MS2011 | | Quadrangle: | | Boxcar | | | |
| Eggersland Rd. | | Local Place Names: | | W.S.R. north | W.S.R. south | | |
| OK 300 | | Landowner: | | W.S. Green Cabin Row | | | |
| Plot No.: | | Plot No.: | | X-axis Bearing of plot: | | [37] ° | |
| 3387 | | Level 5 (nested corners sampled) | | Fuzz 100m | | Fuzz 250m | |
| Date (mm/dd/yyyy): | | Date (mm/dd/yyyy): | | Fuzz 500m | | | |
| 08/02/2011 | | | | | | | |
| Party | | Role** | | Data Confidentiality: | | Check one: <input checked="" type="checkbox"/> Public data <input type="checkbox"/> Private Data | |
| S. Eysenbach | | Plot leader | | Source of coordinates: | | <input type="checkbox"/> Lat/Long <input type="checkbox"/> UTM <input type="checkbox"/> StatePlane | |
| J. Mack | | Observer | | GPS location in plot x=0 to 5, y=-1, 0,+1): | | <input type="checkbox"/> deg <input type="checkbox"/> deg min | |
| Q. Colletta | | Ass't | | x = 0 y = 0 (base of plot x=0, y=0) | | | |
| J. Murphy | | Ass't | | Coordinate system: | | <input type="checkbox"/> Coord. Units | |
| J. Lauterer | | Ass't | | Plot placement: | | <input type="checkbox"/> Representative <input checked="" type="checkbox"/> RTS <input type="checkbox"/> Random <input type="checkbox"/> Stratified Random | |
| ** Roles: Leader, Ass't, Guide, Owner, Taxonomist, etc | | Plot NOT Sampled: | | GPS location (specify): | | <input type="checkbox"/> Transect component <input type="checkbox"/> Systematic (grid) <input type="checkbox"/> Capture specific feature <input type="checkbox"/> Other | |
| P.M. water | | <input type="checkbox"/> Other | | Datum: | | <input type="checkbox"/> m <input type="checkbox"/> ft <input type="checkbox"/> in | |
| Paved | | <input type="checkbox"/> Slope | | Latitude: | | <input type="checkbox"/> NAD83/WGS84 <input type="checkbox"/> NAD27 | |
| Hurried | | <input type="checkbox"/> Safety | | Longitude: | | 81.84515 | |
| SAMPLING QUALITY* | | | | | | | |
| Effort Level: | | | | | | | |
| <input checked="" type="checkbox"/> Very thorough | | | | | | | |
| <input type="checkbox"/> Accurate | | | | | | | |
| <input type="checkbox"/> Hurried | | | | | | | |
| plots may still provide good data | | | | | | | |
| TAXONOMIC ACCURACY | | | | | | | |
| high | modera. | low | not samp | Stems present | Plot size stems: | 0.08 | (ha) |
| vascul. | X | | n/a | VEG - <i>Fraxinus</i> , <i>Vitis</i> , <i>Acer negundo</i> , <i>canopus</i> | | | |
| bryo | | X | | with rich <i>Carex</i> - <i>Glyceria</i> | | | |
| lichen | | X | | herb layer | | | |
| TAXONOMIC STANDARD | | | | | | | |
| Authority: | | G&C | | Pub Date | | 1998 | |

Minimum required fields in Bold and Underlined

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

EGG - *Fraxinus*, *Vitis*, *Acer negundo*, *canopus* with rich *Carex* - *Glyceria* herb layer

Rationale: 6RTS ph

Location: Park at EASTLAND - valley PKWY Lot, ca. 350m N of parking lot

Plot size for cover data: 0.08 (hectares)

Plot size stems: 0.08 (ha)

Depth: (1-5): 4

Intensive modules: 2, 3, 4, 6, 7 (BOTH IF MODIFIED)

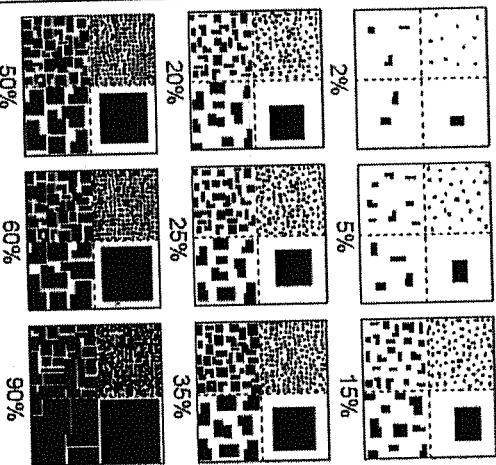
Camera No.: 2

Photo Nos.: C2-1127

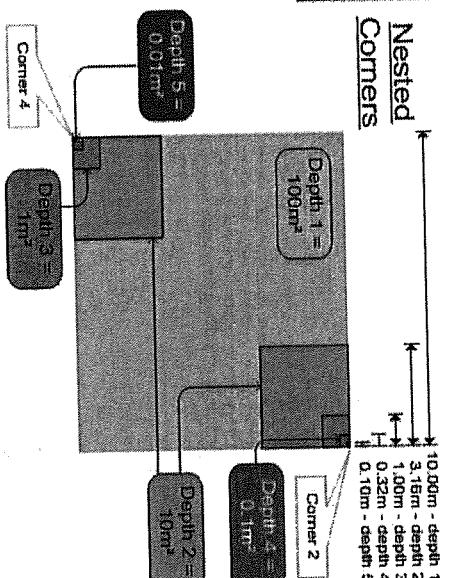
OVER

EXAMPLES OF PERCENT OF AREA COVERED

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



Nested Corners



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.

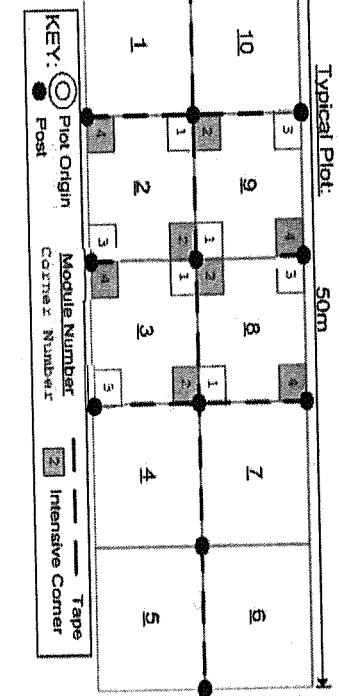
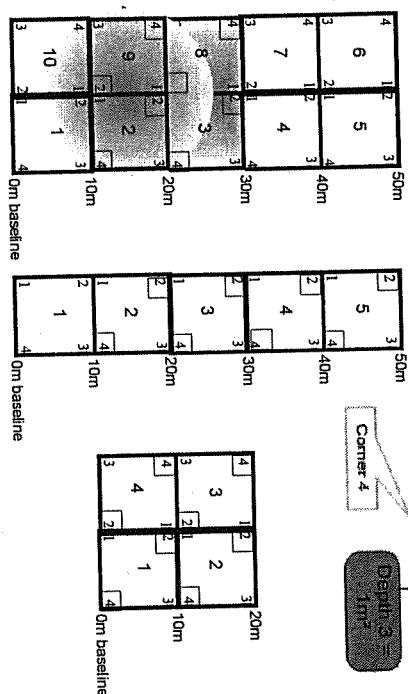
MEDIUM: browse affects greater than 10 percent and less than 25 percent of stems in the 1 m² nested quadrat and intensive module. A browse line is usually not evident or obvious for all classes and species of vegetation, but careful examination may show preferential browse and/or browse lines for some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

BROWSE RATING NARRATIVE DESCRIPTION



CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet

Project Label: PCAP

Total modules: 3

Visual est. % open water entire site: —

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

Project name: MS2011

Plot no.: 3387

Page 2 of 2

Intensive modules: 4

Plot configuration: 2x4

Plot area (ha): 0.08

Visual est. %invasives entire site: 18%



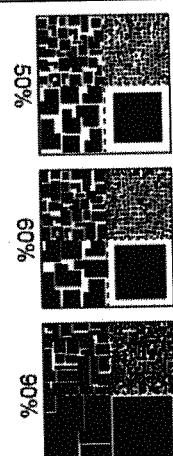
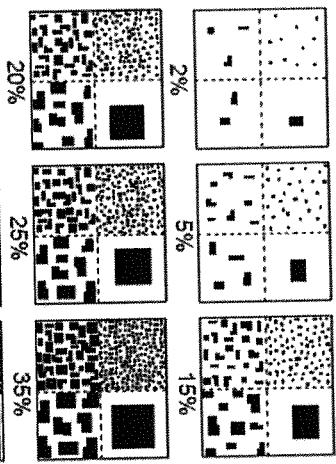
**Cleveland
Metroparks**

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

| T | S | H | (F) | (A) | Br | Species | Estimate for each intensive module: | | | | | | | | | | | |
|---|---|---|-----|-----|----|-----------------------------------|-------------------------------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|
| | | | | | | | mod | corner | mod | corner | mod | corner | mod | corner | mod | corner | mod | corner |
| | | | | | | | depth | cov | depth | cov | depth | cov | depth | cov | depth | cov | depth | cov |
| | | | | | | <i>Salicis myrsinifolia</i> | 3 | 4 | 3 | 2 | 6 | 7 | 7 | 2 | 2 | 4 | 2 | 2 |
| | | | | | | <i>Toxicodendron radicans</i> | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | | | | | <i>Polygonum perfoliatum</i> | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | | | | | <i>Corylus cornuta</i> | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | | | | | <i>Dunus effusus</i> | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | | | | | <i>Erythronium americanum</i> | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | | | | | <i>Ulmus rubra</i> | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 |
| | | | | | | <i>Grindelia septentriionalis</i> | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | | | | | | <i>Cephaelis occidentalis</i> | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | | | | | <i>Rhamnus hispida</i> | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | | | | | <i>Quercus palustris</i> | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | | | | | <i>Lycopus europaeus</i> | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | | | | | <i>Vitis riparia</i> | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | | | | | <i>Eleocharis heterocarpa</i> | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | | | | | <i>Oxalis stricta</i> | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | | | | | <i>Hackelia virginiana</i> | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | | | | | <i>Bidens frondosa</i> | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | | | | | <i>Ostrya virginiana</i> | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | | | | | <i>Erythronium americanum</i> | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | | | | | | <i>Fraxinus americana</i> | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | | | | | <i>Ligustrum vulgare</i> | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | | | | | | <i>Berberis thunbergii</i> | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | | | | | <i>Solanum dulcamara</i> | | | | | | | | | | | | |

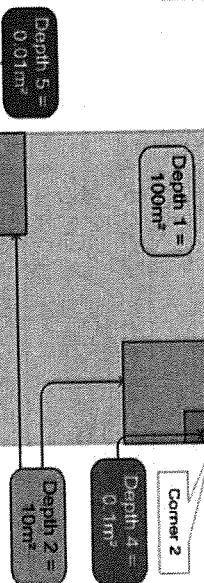
EXAMPLES OF PERCENT OF AREA COVERED

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50% 60% 90%

Nested
Corners



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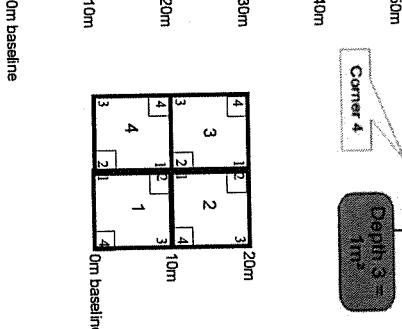
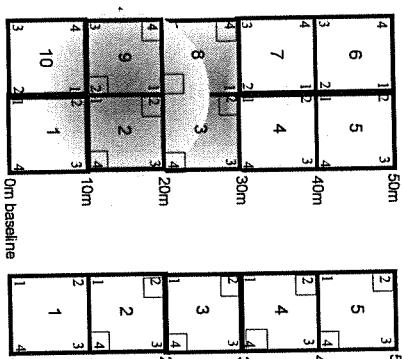
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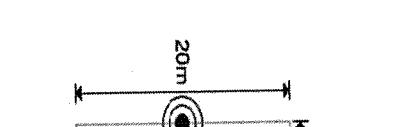
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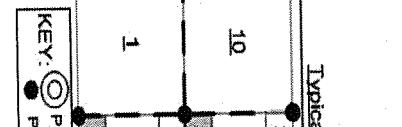
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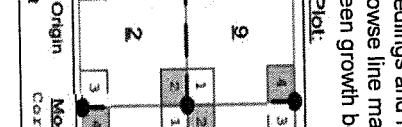
50% 60% 90%



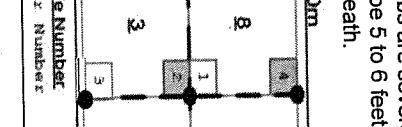
50% 60% 90%



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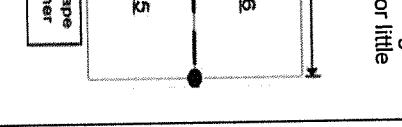
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CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP

Project Name: OMSDO11

Plot No.: 3367

Page: 1 of 2

Explain subsample (additional room on back):

| mod # | species | c | voucher# | # stems 0.5-m browsed | % sub sample | # shrub clumps | size class (cm) woody stems >1m | | | | | | | | | | 11 >40 (record each tree) |
|-------|-----------------------------------|---|----------|-----------------------------|-----------------|----------------------|---------------------------------|---|---|---|---|---|---|---|---|----|------------------------------|
| | | | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| -1 | <i>Acer negundo</i> | | | | | | | | | | | | | | | | |
| -1 | Standing Dead | | | | | | | | | | | | | | | | |
| -1 | <i>Lindera benzoin</i> | | | | | | | | | | | | | | | | |
| -1 | <i>Ulmus rubra</i> | | | | | | | | | | | | | | | | |
| -1 | <i>Cephaelanthus occidentalis</i> | | | | | | | | | | | | | | | | |
| -1 | <i>Ligustrum vulgare</i> | | | | | | | | | | | | | | | | |
| -1 | <i>Fraxinus pennsylvanica</i> | | | | | | | | | | | | | | | | |
| -1 | <i>Vitis riparia</i> | | | | | | | | | | | | | | | | |
| -1 | <i>Tilia americana</i> | | | | | | | | | | | | | | | | |
| -2 | <i>Lindera benzoin</i> | | | | | | | | | | | | | | | | |
| -2 | <i>Prunus pensylvanica</i> | | | | | | | | | | | | | | | | |
| -2 | <i>Fraxinus pennsylvanica</i> | | | | | | | | | | | | | | | | |
| -2 | <i>Acer negundo</i> | | | | | | | | | | | | | | | | |
| -2 | Standing Dead | | | | | | | | | | | | | | | | |
| -2 | <i>Lonicera morrowii</i> | | | | | | | | | | | | | | | | |
| -3 | <i>Fraxinus pennsylvanica</i> | | | | | | | | | | | | | | | | |
| -3 | <i>Acer negundo</i> | | | | | | | | | | | | | | | | |
| -3 | <i>Lindera benzoin</i> | | | | | | | | | | | | | | | | |
| -3 | <i>Rosa multiflora</i> | | | | | | | | | | | | | | | | |
| -3 | <i>Ligustrum vulgare</i> | | | | | | | | | | | | | | | | |
| -3 | Standing Dead | | | | | | | | | | | | | | | | |
| -4 | <i>Amelanchier alnifolia</i> | | | | | | | | | | | | | | | | |
| -4 | <i>Rosa multiflora</i> | | | | | | | | | | | | | | | | |
| -4 | <i>Acer negundo</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.)

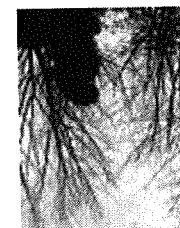
E

D

C

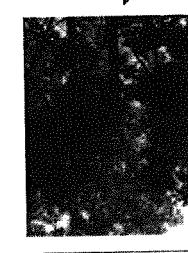
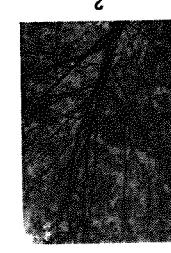
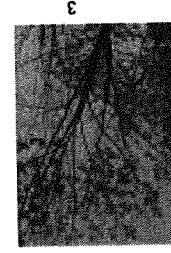
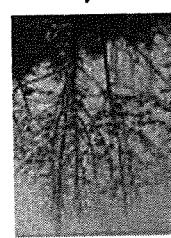
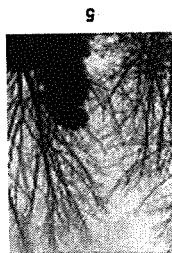
B

A



5. Dead canopy: No leaves remain in the canopy portion of the tree. (still counts as a 5 even if there are epicormic sprouts below the canopy (lowest branch) on the trunk.)
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.
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.
2. Thinning canopy: There aren't as many leaves as there ought to be, but all top branches exposed to sunlight have leaves.
1. Healthy, full canopy: A healthy ash canopy is normally thinner than many other trees such as maple.

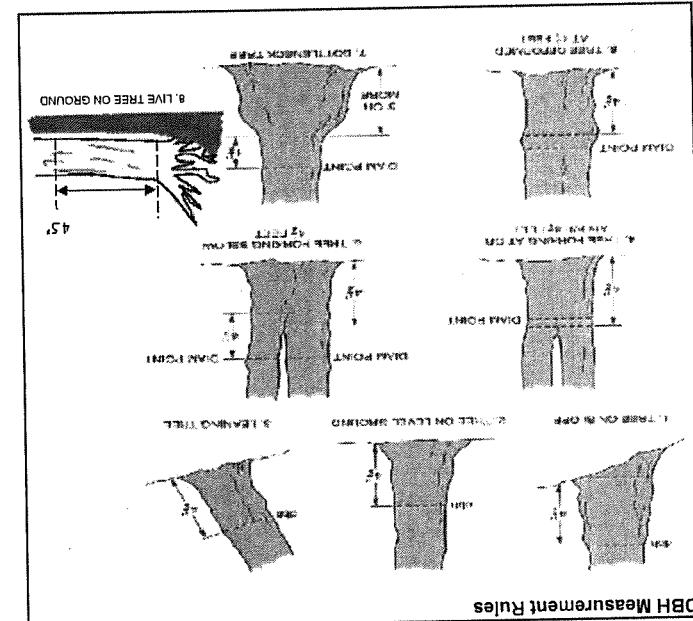
ASH CANOPY CONDITION



Record using the tally system from 1 to 10

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

Woody Stem Deer Browse



CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

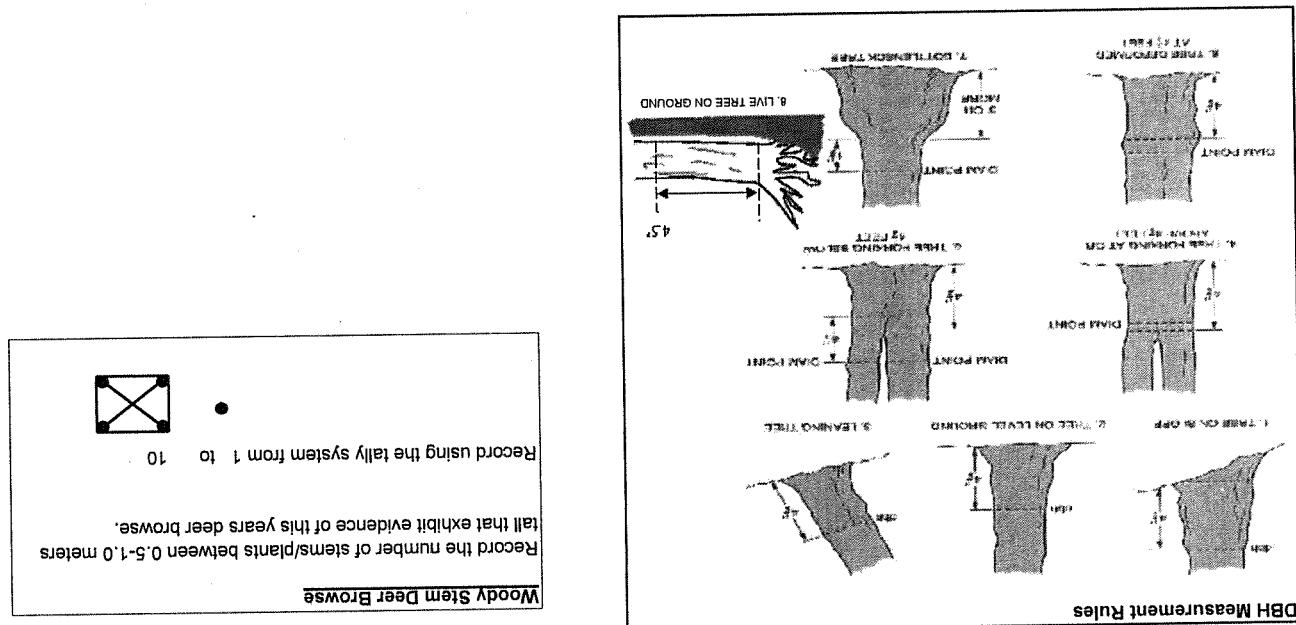
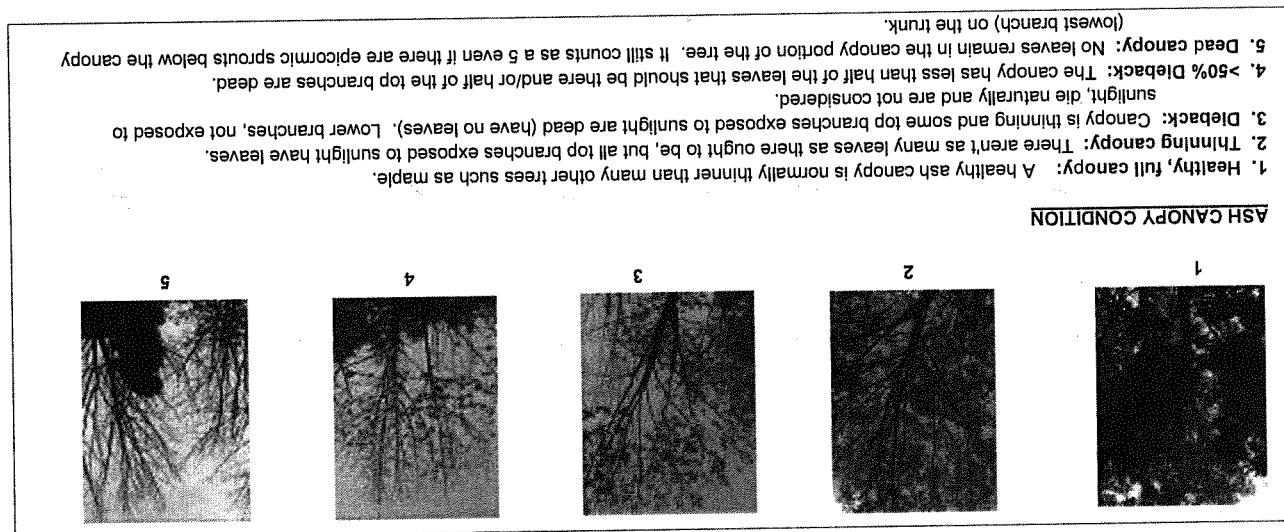
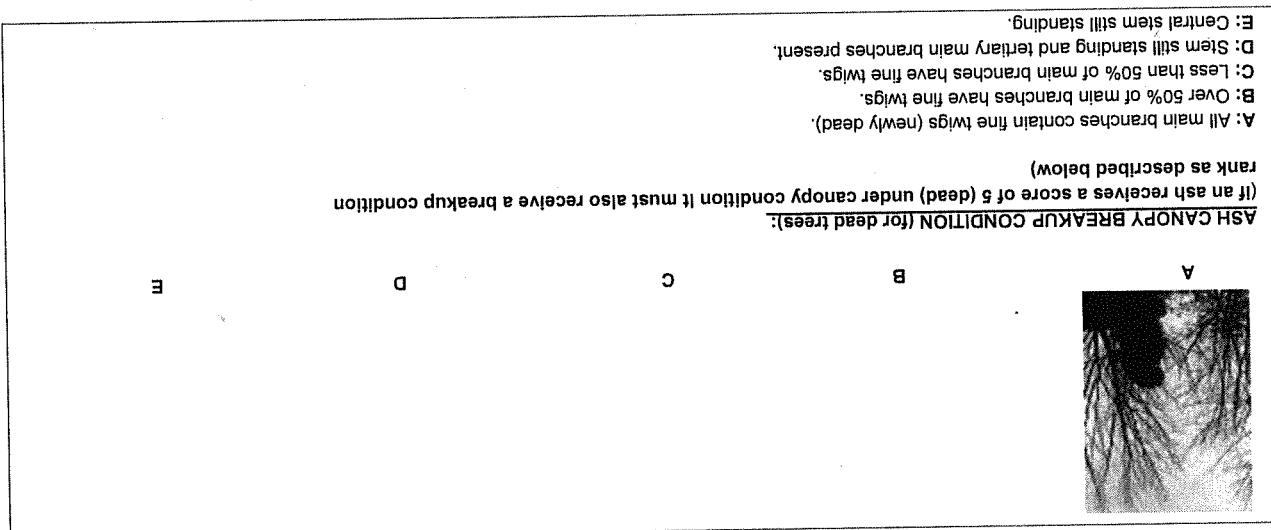
Project Label: PCAP

Project Name: 81 (MS 201) Plot No.: 3387

Page: 2 of 7 Clever

Cleveland Metroparks

Explain subsample (additional room on back):



CLEVELAND METROPARKS Emerald Ash Borer - *Fraxinus* Sheet

Project Label: PCAP

Project Name: DIMSD01

INTENSIVE MODULES ONLY TREES $\geq 10\text{cm}$ ONLY
Plot No.: 3387 Date: 8-2-11

Page: 1 of 2

| Module | Tree ID. | Species | Dead c | Voucher # | DBH (cm) | Ht @ DBH | Ash condition | # Dead holes | ASH Only | | |
|--------|----------|-------------------------------|--------|-----------|----------|----------|---------------|--------------|--------------|-------------------|------------------|
| | | | | | | | | | # Exit holes | Epicormic present | Woodpecker holes |
| 2 | 1 | <i>Fraxinus pennsylvanica</i> | 19.1 | 134 | 4 | | 4 | 0 | 1 | 0 | |
| 3 | 2 | <i>Fraxinus pennsylvanica</i> | 52.1 | 134 | 3 | | 0 | 1 | 1 | 0 | |
| 3 | 3 | <i>Fraxinus pennsylvanica</i> | 26.9 | 134 | 3 | | 0 | 1 | 1 | 1 | |
| 3 | 4 | <i>Fraxinus pennsylvanica</i> | 15.7 | 139 | 5 | | E | 6 | 0 | 1 | |
| 6 | 5 | <i>Fraxinus pennsylvanica</i> | 32.7 | 134 | 4 | | 0 | 1 | 1 | 1 | |
| 6 | 6 | <i>Fraxinus pennsylvanica</i> | 34.9 | 134 | 3 | | 0 | 0 | 0 | 0 | |
| 7 | 7 | | | | | | | | | | |
| 8 | 8 | | | | | | | | | | |
| 9 | 9 | | | | | | | | | | |
| 10 | 10 | | | | | | | | | | |
| 11 | 11 | | | | | | | | | | |
| 12 | 12 | | | | | | | | | | |
| 13 | 13 | | | | | | | | | | |
| 14 | 14 | | | | | | | | | | |
| 15 | 15 | | | | | | | | | | |
| 16 | 16 | | | | | | | | | | |
| 17 | 17 | | | | | | | | | | |
| 18 | 18 | | | | | | | | | | |
| 19 | 19 | | | | | | | | | | |
| 20 | 20 | | | | | | | | | | |
| 21 | 21 | | | | | | | | | | |
| 22 | 22 | | | | | | | | | | |
| 23 | 23 | | | | | | | | | | |
| 24 | 24 | | | | | | | | | | |
| 25 | 25 | | | | | | | | | | |

*** Change intensive module numbers when necessary

| | |
|-------------------------------------|----|
| Baseline | |
| <input checked="" type="checkbox"/> | 1 |
| <input type="checkbox"/> | 2 |
| <input type="checkbox"/> | 3 |
| <input type="checkbox"/> | 4 |
| <input type="checkbox"/> | 5 |
| <input type="checkbox"/> | 6 |
| <input type="checkbox"/> | 7 |
| <input type="checkbox"/> | 8 |
| <input type="checkbox"/> | 9 |
| <input type="checkbox"/> | 10 |
| <input type="checkbox"/> | 11 |
| <input type="checkbox"/> | 12 |
| <input type="checkbox"/> | 13 |
| <input type="checkbox"/> | 14 |
| <input type="checkbox"/> | 15 |
| <input type="checkbox"/> | 16 |
| <input type="checkbox"/> | 17 |
| <input type="checkbox"/> | 18 |
| <input type="checkbox"/> | 19 |
| <input type="checkbox"/> | 20 |
| <input type="checkbox"/> | 21 |
| <input type="checkbox"/> | 22 |
| <input type="checkbox"/> | 23 |
| <input type="checkbox"/> | 24 |
| <input type="checkbox"/> | 25 |

Map all ash trees $\geq 10\text{cm}$ in each module using Tree ID number

- * If Ash Condition scores 5 (dead) provide breakup score (A-E)
- Count EAB exit holes $1.25\text{cm}^2 \times \geq 1.5\text{in}$
- Woodpecker and epicormic marked present (1) or absent (0)

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

| COVER BY STRATA ¹ % estimate using method of s.e. 1, 5, 13, 18% | | |
|--|-------------------|-----------------|
| Strata | Height Range (in) | Total Cover (%) |
| Tree | 5 - X | 48 |
| Shrub | 0.5 - 5 | 18 |
| Herb | X - 0.5 | 98 |
| Floating* | - | - |
| (Aquatic)** | - | - |
| * rooted and floating or slightly emersed | | |
| ** submersed, most plant mass below surface | | |
| SEE BACK OF PAGE FOR "TYPICAL" STRATA DESCRIPTIONS. STRATA CAN VARY BY COVER TYPE. | | |

| EARTH SURFACE & GROUND COVER | | |
|---------------------------------------|---------------|------------------------|
| Underlying Earth Surface ³ | Ground Cover | Type |
| (Sum = 100%) | percent | Type |
| Histsol | 0 | All Purpose |
| Mineral Soil | 100 | Course Woody Debris*** |
| Gravel/Cobble* | 0 | Boulder |
| Boulder** | 0 | Hiking sanctioned |
| Bardock | 0 | Boat unsanctioned |
| Gravel/Cobble* | 1/16 to 10 in | Gravel |
| *Boulder = > 10 in | | |
| **>5 cm in diameter | | |
| Road/Trail | 0 | Deer |
| Other | 0 | |

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

MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only

Ranks for microhabitat features. Select one or select two and average the score. NOTE: If mod fails on a slope automatically gets ranked based on steepness (-3)

Slope 1 = slight elevational grade across module (hill)

Slope 2 = falls on slope ~20°

Slope 3 = maximum steepness that can be safely sampled ~45°

D feature is absent or functionally absent (Call Course Flat)

3 feature is present in very small amounts or if more common, of low quality

7 feature is present in moderate amounts, but not of highest quality, or in small amounts of highest quality

10 feature is present in moderate or greater amounts and of highest quality

c.w.d. - count for pieces with minimum 1m length

| Module | N | S | E | W | CROWN COVER DENSITOMETER ⁴ : Make 4 readings per module facing N, S, E, W. Place dot count in corresponding space. (4 dots per grid square) | | | | | |
|--------|----|----|---|----|--|----|----|----|----|---|
| | | | | | 2 | 6 | 12 | 5 | 1 | 6 |
| 6 | 2 | 1 | 1 | 1 | 3 | 2 | 1 | 1 | 6 | 6 |
| 7 | 16 | 18 | 8 | 15 | 2 | 19 | 37 | 29 | 10 | 7 |

McNAB INDICES (degrees) + for up ... for down
(FILLED OUT USING GIS PROGRAM - DO NOT FILL OUT IN FIELD)

| Module | At aspect | N | E | W |
|--------|--------------|----|---|---|
| 2 | +15 degrees | NE | | |
| 3 | +90 degrees | E | | |
| 6 | +135 degrees | SE | | |

LEI* is angle of plot to the horizon. TSI is angles formed by local slopes. For TSI measure angle from recorder eye to eye of person summing ~10 m away.

* Landform index (position within landscape)

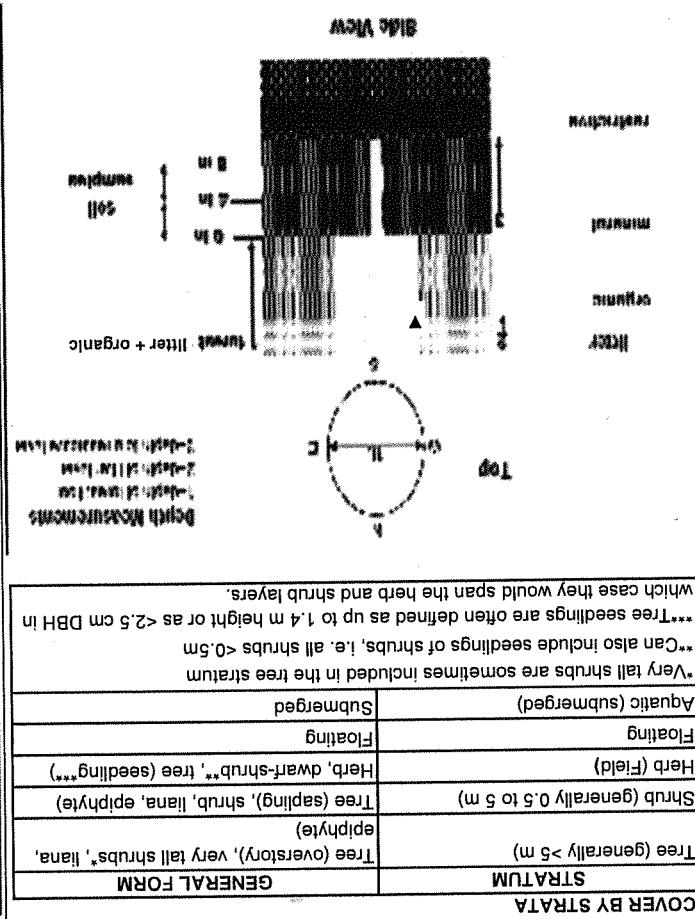
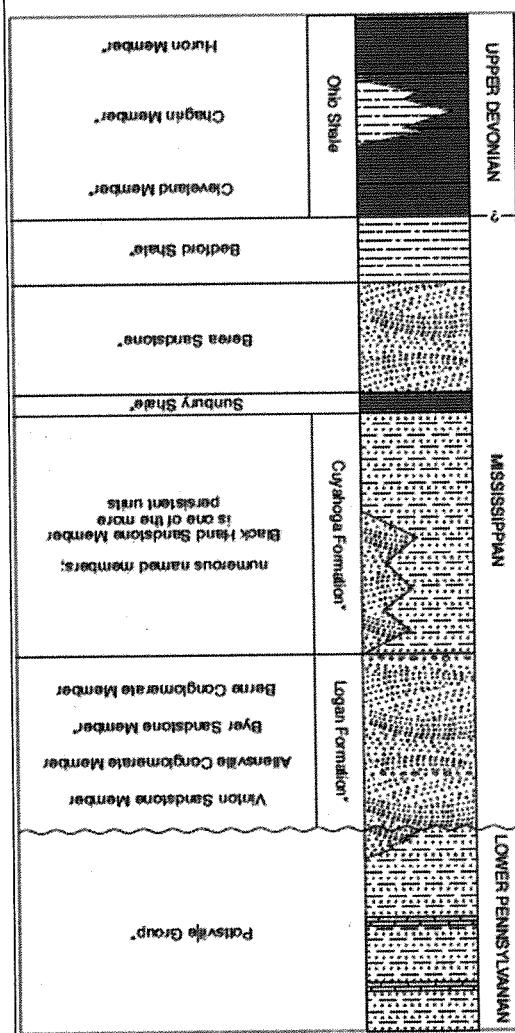
** Terrain Shape Index (site microtopographic shape)

NOTE: tussock and hummocks are counted in BOTH nested quadrat corners but counts are aggregated.

macro depressions = macrotopographic depressions with module. These may extend into other modules and be counted again.

c.w.d. = coarse woody debris

microhab. interspers. = overall ranking of plot microtopographic interspersion complexity using scale below



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

Soil pit module # 3 (one per entire plot)

| | | |
|-------|------------------|-----------|
| 5 cm | matrix color | 10 YR 3/2 |
| | mottle color | N/A |
| | %mottle | N/A |
| | oxid roots | Y |
| | texture* | 2 |
| | redox features** | Y |
| | hydr. cond. *** | I S N D |
| 20 cm | matrix color | 10 YR 4/3 |
| | mottle color | N/A |
| | %mottle | N/A |
| | oxid roots | Y |
| | texture* | 2 |
| | redox features** | Y |
| | hydro. cond. *** | I S N D |

SOIL SAMPLES Standard procedure: collect a soil sample of the top 10 cm of soil from center of each intensive module and composite the sample

C? -check when collected

| Soil Collection Module | Horizon (A, B, C) |
|------------------------|-------------------|
| 2,3,6,7 composed | A |
| | |
| | |
| | |
| | |
| | |

Soil Description/notes:

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

| Module # | C? | Corner | Corner |
|----------|----|--------|--------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

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) |
|------|-------------------------------|--------------------|------------------------|------------------|---------------------|
| 2 | 0 | 0 | >100 | 0 | >200 |
| 3 | 0 | 0 | >100 | 0 | >300 |
| 6 | 0 | 0 | >100 | 0 | 7 |
| 7 | 0 | 0 | >100 | 0 | 11 |

31

Length of soil probe = 125 cm

* Use Web Soil Survey for #3 Restrictive layer dept.

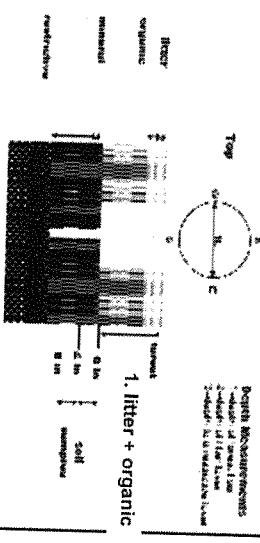
Earthworms present
G + S cm

No castings or nuclei apparent

2B
Depth to
restrict. >80 in

8-25-11

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



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

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

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 Temporarily flooded.

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 flooding can be applied to both wetland and non-wetland situations. Equivalent to Cowardin's

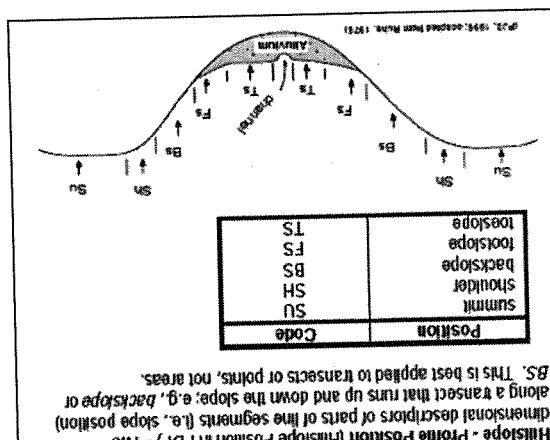
UPLAND: Not a wetland. Very rarely flooded.

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

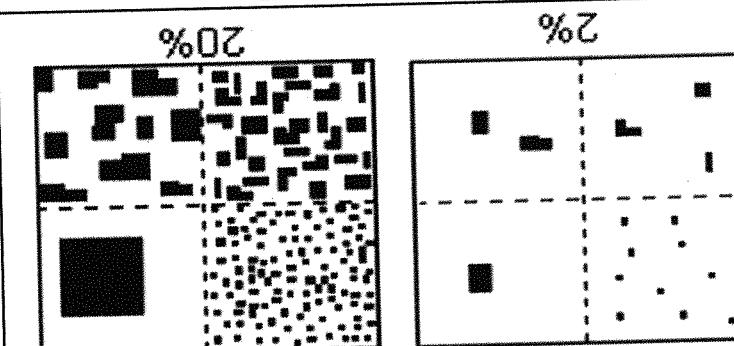
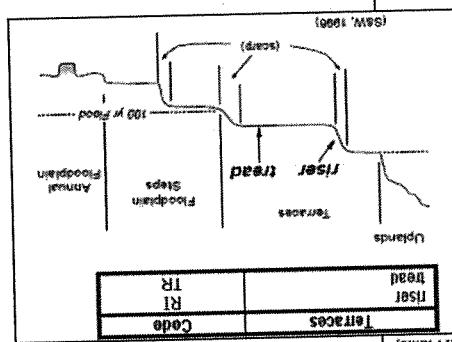
PERMANENTLY/SEMPERFERTILIS SATURATED: Dry less than once per year. Surface water is seldom present, but substrate is saturated to support the growing season. Equivalent to Cowardin's Saturated modifier.

OCASIONALLY FLOODED: Surface water can be present for brief periods during growing season, but not in most years. Often saturated to support the growing season. Equivalent to Cowardin's Saturated modifier.

YPEROL OGI REGIME Modelled from Grossmann et al 1998. (Frequency and duration of flooding.)



multiple Components - Three-dimensional descriptions of parts of machines or microelements that best applied to areas. Unique descriptions of microelements that best applied to areas. Holes, Tefraces, Mountaunes, and Flat Plates.



SOIL TEXTURE: Record the code for the soil texture of the 5 cm and 20 cm layers. To estimate texture, collect a soil sample from

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

Reviewed by (initials):

Site ID: PCAP ms 3387

DATE: 08/02/2011

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

PLOT COORDINATES

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

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

Location of coordinates (choose one):

Flag

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

Latitude North

4.1 35498

Longitude West

0.8.1 8.4.6.7.9.

Use Decimal Degrees: NAD83

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (initial): _____

Site ID: PCAP MS 3387

DATE: 08/02/2011

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

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

Industrial Development Stressors

Habitat/Vegetation Stressors

| Industrial Development Stressors | | | | | | | | | | | | | | |
|----------------------------------|-----------------------|-----------------------|-----------------------|------|--|----------------------------------|-----------------------|-----------------------|------|---|-----------------------|-----------------------|-----------------------|------|
| Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag |
| Oil Drilling | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Forest Clear Cut | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Herbicide Use | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Gas Wells | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Forest Selective Cut | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Mowing/Shrub Cutting | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Mine (surface) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Tree Plantation | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Trails | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Mine (underground) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Tree Canopy Herbivory (INSECT) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Soil Compaction (ANIMAL OR HUMAN) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Military | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Shrub Layer 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 (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: PCAP MS 3387

DATE: 08/02/2011

● 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 Watermilfoil | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Purple Loosestrife | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Johnson Grass | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Water hyacinth | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Knotweed | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Kudzu | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Yellow Floating Heart | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Japanese Knotweed | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Multiflora Rose | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Giant Salvinia | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Perennial Pepperweed | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Common Buckthorn | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Garlic Mustard | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Giant Reed | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Himalayan Blackberry | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Poison Hemlock | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Cheatgrass | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Tamarisk | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Mile-A-Minute Weed | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Reed Canary Grass | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| 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"/> | |
| | | | | | | | | | | | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |

PLOT COORDINATES

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

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

Location of coordinates (choose one):

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

Flag

1

Latitude North

41 35.614

Longitude West

081 84.544

Use Decimal Degrees; NAD83

| Flag | Comments |
|------|--|
| 1 | Plot 3 information taken at bottom of slope on property line |
| 2 | Data for Plot 3 taken on property line on bottom of slope |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (initial): _____

Site ID: PCAP MS 3387

DATE: 08/02/2011

Location:

O AA Center N OS OE OW

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

O Plot 1 O Plot 2 O Plot 3

Buffer Natural Cover Strata

Fill in bubbles for all that apply: Canopy Type: D = Deciduous; E = Evergreen. Leaf Type: B = Broadleaf; N = Needle Leaf. Absent: No tree canopy.
 Strata Section: Fill in appropriate cover class bubble for each strata type for each plot. 0 = Absent; 1 = Sparse(<10%); 2=Moderate(10-40%); 3 = Heavy (40-75%); 4 = Very Heavy (>75%)

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

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

| Residential and Urban Stressors | | | | Hydrology Stressors | | | | Agricultural & Rural Stressors | | | | | | | |
|---------------------------------|-----------|---|---|---------------------|--|-----------|---|--------------------------------|------|--|-----------|---|---|------|--|
| Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag | |
| Road - gravel | 0 1 2 3 4 | | | | Ditches, Channelization | 0 1 2 3 4 | | | | Pasture/Hay | 0 1 2 3 4 | | | | |
| Road - two lane | 0 1 2 3 4 | | | | Dike/Dam/Road/RR Bed (IMPEDE FLOW) | 0 1 2 3 4 | | | | Range | 0 1 2 3 4 | | | | |
| Road - four lane | 0 1 2 3 4 | | | | Water Level Control Structure | 0 1 2 3 4 | | | | Row Crops | 0 1 2 3 4 | | | | |
| Parking Lot/Pavement | 0 1 2 3 4 | | | | Excavation, Dredging | 0 1 2 3 4 | | | | Fallow Field (RECENT RESTING ROW CROP FIELD) | 0 1 2 3 4 | | | | |
| Golf Course | 0 1 2 3 4 | | | | Fill/Soil Banks | 0 1 2 3 4 | | | | Fallow Field (OLD - GRASS SHRUBS/ TREES) | 0 1 2 3 4 | | | | |
| Lawn/Park | 0 1 2 3 4 | | | | Freshly Deposited Sediment (UNVEGETATED) | 0 1 2 3 4 | | | | Nursery | 0 1 2 3 4 | | | | |
| Suburban Residential | 0 1 2 3 4 | | | | Soil Loss/Roof Exposure | 0 1 2 3 4 | | | | Dairy | 0 1 2 3 4 | | | | |
| Urban/Multifamily | 0 1 2 3 4 | | | | Wall/Riprap | 0 1 2 3 4 | | | | Orchard | 0 1 2 3 4 | | | | |
| Landfill | 0 1 2 3 4 | | | | Inlets, Outlets | 0 1 2 3 4 | | | | Confined Animal Feeding | 0 1 2 3 4 | | | | |
| Dumping | 0 1 2 3 4 | | | | Point Source/Pipe (EFFLUENT OR STORMWATER) | 0 1 2 3 4 | | | | Rural Residential | 0 1 2 3 4 | | | | |
| Trash | 0 1 2 3 4 | | | | Impervious surface input (SHEETFLOW) | 0 1 2 3 4 | | | | Gravel Pit | 0 1 2 3 4 | | | | |
| Other: | 0 1 2 3 4 | | | | Other: | 0 1 2 3 4 | | | | Irrigation | 0 1 2 3 4 | | | | |
| Other: | 0 1 2 3 4 | | | | Other: | 0 1 2 3 4 | | | | Other: | 0 1 2 3 4 | | | | |

| Industrial Development Stressors | | | | Habitat/Vegetation Stressors | | | | | | | | | | | |
|----------------------------------|-----------|---|---|------------------------------|---|-----------|---|---|------|--|-----------|---|---|------|--|
| Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag | |
| Oil Drilling | 0 1 2 3 4 | | | | Forest, Clear Cut | 0 1 2 3 4 | | | | Herbicide Use | 0 1 2 3 4 | | | | |
| Gas Wells | 0 1 2 3 4 | | | | Forest, Selective Cut | 0 1 2 3 4 | | | | Mowing/Shrub Cutting | 0 1 2 3 4 | | | | |
| Mine (surface) | 0 1 2 3 4 | | | | Tree Plantation | 0 1 2 3 4 | | | | Trails | 0 1 2 3 4 | | | | |
| Mine (underground) | 0 1 2 3 4 | | | | Tree Canopy Herbivory (INSECT) | 0 1 2 3 4 | | | | Soil Compaction (ANIMAL OR HUMAN) | 0 1 2 3 4 | | | | |
| Military | 0 1 2 3 4 | | | | Shrub Layer Browsed (WILD OR DOMESTIC) | 0 1 2 3 4 | | | | Offroad vehicle damage | 0 1 2 3 4 | | | | |
| Other: | 0 1 2 3 4 | | | | Highly Grazed Grasses (OVERALL <3 HIGH) | 0 1 2 3 4 | | | | Soil erosion (FROM WIND, WATER OR OVERUSE) | 0 1 2 3 4 | | | | |
| Other: | 0 1 2 3 4 | | | | Recently Burned Forest Canopy | 0 1 2 3 4 | | | | Other: | 0 1 2 3 4 | | | | |
| Other: | 0 1 2 3 4 | | | | Recently Burned Grassland (BLACKENED) | 0 1 2 3 4 | | | | Other: | 0 1 2 3 4 | | | | |

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 (initials):

Site ID: PCAP MS 3387

DATE: 08/02/2011

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

| List of species found in this bubble | | | | | | | | | | | | | | |
|--------------------------------------|--------------------------|--------------------------|--------------------------|------|-------------------------------|--------------------------|--------------------------|--------------------------|------|-------------------------------|--------------------------|--------------------------|--------------------------|------|
| Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag |
| Eurasian Watermilfoil | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Purple Loosestrife | <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"/> | | Knotweed | <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 type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Giant Salvinia | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Perennial Peppenweed | <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"/> | | Reed Canary Grass | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Other: | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Birdsfoot 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"/> | | Leafy Spurge | <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"/> | |

PLOT COORDINATES

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

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

Location of coordinates (choose one):

Flag

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

Latitude North 41 35513

Longitude West

0.8.1 8.4 ~~5~~ 4

Use Decimal Degrees: NAD83

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): _____

Site ID: PCAP MS 3387

DATE: 08/02/2011

Location:

● AA Center ON OS OE OW

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

○ Plot 1 ○ Plot 2 ○ Plot 3

Buffer Natural Cover Strata

Fill in bubbles for all that apply: Canopy Type: D = Deciduous; E = Evergreen. Leaf Type: B = Broadleaf; N = Needle Leaf. Absent: No tree canopy. Strata Section: Fill in appropriate cover class bubble for each strata type for each plot. 0 = Absent; 1 = Sparse(<10%); 2=Moderate(10-40%); 3 = Heavy (40-75%); 4 = Very Heavy (>75%)

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

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

| Residential and Urban Stressors | | | | Hydrology Stressors | | | | Agricultural & Rural Stressors | | | | Flag |
|---------------------------------|---|---|---|--|---|---|---|---|---|---|---|------|
| Fill bubble if present - Plot | 1 | 2 | 3 | Fill bubble if present - Plot | 1 | 2 | 3 | Fill bubble if present - Plot | 1 | 2 | 3 | Flag |
| Road - gravel | ○ | ○ | ○ | Ditches, Channelization | ○ | ○ | ○ | Pasture/Hay | ○ | ○ | ○ | |
| Road - two lane | ○ | ○ | ○ | Dike/Dam/Road/RR Bed (IMPEDE FLOW) | ○ | ○ | ○ | Range | ○ | ○ | ○ | |
| Road - four lane | ○ | ○ | ○ | Water Level Control Structure | ○ | ○ | ○ | Row Crops | ○ | ○ | ○ | |
| Parking Lot/Pavement | ○ | ○ | ○ | Excavation, Dredging | ○ | ○ | ○ | Fallow Field (RECENT RESTING ROWCROP FIELD) | ○ | ○ | ○ | |
| Golf Course | ○ | ○ | ○ | Fill/Soil Banks | ○ | ○ | ○ | Fallow Field (OLD - GRASS, SHRUBS, TREES) | ○ | ○ | ○ | |
| Lawn/Park | ○ | ○ | ○ | Freshly Deposited Sediment (UNVEGETATED) | ○ | ○ | ○ | Nursery | ○ | ○ | ○ | |
| Suburban Residential | ○ | ○ | ○ | Soil Loss/Root Exposure | ○ | ○ | ○ | Dairy | ○ | ○ | ○ | |
| Urban/Multifamily | ○ | ○ | ○ | Wall/Riprap | ○ | ○ | ○ | Orchard | ○ | ○ | ○ | |
| Landfill | ○ | ○ | ○ | Inlets, Outlets | ○ | ○ | ○ | Confined Animal Feeding | ○ | ○ | ○ | |
| Dumping | ○ | ○ | ○ | Point Source/Pipe (EFFLUENT OR STORMWATER) | ○ | ○ | ○ | Rural Residential | ○ | ○ | ○ | |
| Trash | ○ | ○ | ○ | Impervious surface input (SHEETFLOW) | ○ | ○ | ○ | Gravel Pit | ○ | ○ | ○ | |
| Other: | ○ | ○ | ○ | Other: | ○ | ○ | ○ | Impaction | ○ | ○ | ○ | |
| Other: | ○ | ○ | ○ | Other: | ○ | ○ | ○ | Other: | ○ | ○ | ○ | |

| Industrial Development Stressors | | | | Habitat/Vegetation Stressors | | | | | | | | Flag |
|----------------------------------|---|---|---|--|---|---|---|--|---|---|---|------|
| Fill bubble if present - Plot | 1 | 2 | 3 | Fill bubble if present - Plot | 1 | 2 | 3 | Fill bubble if present - Plot | 1 | 2 | 3 | Flag |
| Oil Drilling | ○ | ○ | ○ | Forest Clear Cut | ○ | ○ | ○ | Herbicide Use | ○ | ○ | ○ | |
| Gas Wells | ○ | ○ | ○ | Forest Selective Cut | ○ | ○ | ○ | Mowing/Shrub Cutting | ○ | ○ | ○ | |
| Mine (surface) | ○ | ○ | ○ | Tree Plantation | ○ | ○ | ○ | Trails | ○ | ○ | ○ | |
| Mine (underground) | ○ | ○ | ○ | Tree Canopy Herbivory (INSECT) | ○ | ○ | ○ | Soil Compaction (ANIMAL OR HUMAN) | ○ | ○ | ○ | |
| Military | ○ | ○ | ○ | Shrub Layer Browsed (WILD OR DOMESTIC) | ● | ○ | ○ | Offroad vehicle damage | ○ | ○ | ○ | |
| Other: | ○ | ○ | ○ | Highly Grazed Grasses (OVERALL <3' HIGH) | ○ | ○ | ○ | Soil erosion (FROM WIND, WATER, OVERUSE) | ○ | ○ | ○ | |
| Other: | ○ | ○ | ○ | Recently Burned Forest Canopy | ○ | ○ | ○ | Other: | ○ | ○ | ○ | |
| Other: | ○ | ○ | ○ | Recently Burned Grassland (BLACKENED) | ○ | ○ | ○ | Other: | ○ | ○ | ○ | |

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

2428168304

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

Reviewed by (initials):

Site ID: PCAP MS 3387

DATE: 08/02/2011

④ Confirm a filled data bubble indicates presence and an unfilled bubble indicates absence by filling in this bubble.

| Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag |
|-------------------------------|-----------------------|-----------------------|-----------------------|------|-------------------------------|-----------------------|-----------------------|-----------------------|------|-------------------------------|----------------------------------|-----------------------|----------------------------------|------|
| Eurasian Watermilfoil | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Purple Loosestrife | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Johnson Grass | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Water Hyacinth | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Knotweed | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Kudzu | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Yellow Floating Heart | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Japanese Knotweed | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Multiflora Rose | <input checked="" type="radio"/> | <input 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 Buckthorn | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| 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"/> | |
| Mile-A-Minute Weed | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Reed Canary Grass | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Other: | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Birdsfoot Trefoil | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Common Reed | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Other: | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Canada Thistle | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Leafy Spurge | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Other: | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |

PLOT COORDINATES

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

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

Location of coordinates (choose one):

Flag

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

Latitude North

4.1 3.55.28

Longitude West

8.1 843.83

Use Decimal Degrees; NAD83

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (initial): _____

Site ID: PCAP ms 3387

DATE: 08/02/2011

Location:

O AA Center O N O S O E O W

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

O Plot 1 O Plot 2 O Plot 3

Buffer Natural Cover Strata

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

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

| Buffer Plot 1 | Canopy Type: D E | | Absent: <input type="radio"/> | Buffer Plot 2 | Canopy Type: D E | | Absent: <input type="radio"/> | Buffer Plot 3 | Canopy Type: D E | | Absent: <input type="radio"/> |
|---------------------------------------|-----------------------|-----------------------|-------------------------------|-----------------------|-----------------------|-----------------------|-------------------------------|---------------------------------------|-----------------------|-----------------------|-------------------------------|
| | Leaf Type: B N | Flag | | | Leaf Type: B N | Flag | | | Leaf Type: B N | Flag | |
| Big Trees (>0.3m DBH) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | 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"/> | <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"/> |
| Woody Shrubs, Saplings (0.5m-5m HIGH) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Woody Shrubs, Saplings (0.5m-5m 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"/> | <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"/> |
| Herbs, Forbs and Grasses | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Herbs, Forbs and Grasses | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Bare ground | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Bare ground | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Litter, duff | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Litter, duff | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Rock | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Rock | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Water | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Water | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Submerged Vegetation | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | 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 | Fill bubble if present - Plot | 1 | 2 | 3 | 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/Soil Banks | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Fallow Field (OLD - GRASS, SHRUBS, TREES) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Lawn/Park | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Freshly Deposited Sediment (UNVEGETATED) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Nursery | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Suburban Residential | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Soil Loss/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 | Fill bubble if present - Plot | 1 | 2 | 3 | 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 <1" 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 (initials):

Site ID: PCAP MS 3387

DATE: 08/02/2011

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

PLOT COORDINATES

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

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

Location of coordinates (choose one):

Flag

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

Latitude North

4.1 3,5,3,85.

Longitude West

8.1 84.5.1.3

Use Decimal Degrees: NAD83

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): _____

Site ID: PCAP MS 3387

DATE: 08/02/2011

Location: AA Center N S O 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"/> | Buffer Plot 2 | Canopy Type: <input type="radio"/> D <input type="radio"/> E | | Absent: <input type="radio"/> | Buffer Plot 3 | Canopy Type: <input type="radio"/> D <input type="radio"/> E | | Absent: <input type="radio"/> | | |
|---------------------------------------|--|------------------------------------|------------------------------------|-------------------------|--|--|-------------------------------|---------------------------------------|--|-------------------------|------------------------------------|------------------------------------|-------------------------|
| | Leaf Type: <input type="radio"/> B <input type="radio"/> N | | | | Leaf Type: <input type="radio"/> B <input type="radio"/> N | | | | Leaf Type: <input type="radio"/> B <input type="radio"/> N | | | | |
| 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 | | | Big Trees (>0.3m DBH) | <input type="radio"/> 0 | <input type="radio"/> 1 | <input type="radio"/> 2 | <input checked="" type="radio"/> 3 | <input type="radio"/> 4 |
| Small Trees (<0.3m DBH) | <input type="radio"/> 0 | <input checked="" type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | | | Small Trees (<0.3m DBH) | <input type="radio"/> 0 | <input type="radio"/> 1 | <input type="radio"/> 2 | <input checked="" type="radio"/> 3 | <input type="radio"/> 4 |
| 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 | | | 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 |
| 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 | | | 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 |
| 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 | | | Herbs, Forbs and Grasses | <input type="radio"/> 0 | <input type="radio"/> 1 | <input type="radio"/> 2 | <input checked="" type="radio"/> 3 | <input type="radio"/> 4 |
| Bare ground | <input checked="" type="radio"/> 0 | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | | | Bare ground | <input type="radio"/> 0 | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 |
| Litter, duff | <input checked="" type="radio"/> 0 | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | | | Litter, duff | <input type="radio"/> 0 | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 |
| Rock | <input checked="" type="radio"/> 0 | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | | | Rock | <input type="radio"/> 0 | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 |
| Water | <input checked="" type="radio"/> 0 | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | | | Water | <input type="radio"/> 0 | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 |
| Submerged Vegetation | <input checked="" type="radio"/> 0 | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 | | | Submerged Vegetation | <input type="radio"/> 0 | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 | <input type="radio"/> 4 |

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

| Residential and Urban Stressors | | | | Hydrology Stressors | | | | Agricultural & Rural Stressors | | | | | | | |
|---------------------------------|-----------------------|-----------------------|-----------------------|---------------------|--|-----------------------|-----------------------|--------------------------------|------|--|-----------------------|-----------------------|-----------------------|------|--|
| Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag | |
| Road - gravel | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | 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 (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 <1" HIGH) | <input type="radio"/> | <input checked="" 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 | <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"/> | | Canopy | <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

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Buffer Sample Plots 05/27/2011