

CLEVELAND METROPARKS Plant Community Assessment Program: Quality Control Form

Project Label:

PCAP

Plot No: 1384 Date Sampled: 9/8/13

Cleveland Metroparks

Lead: SJC

| | | Comment required if item answer is NO | |
|--|---------------------------------|---|-----------------------|
| | | If yes, write details in Comments section below | |
| Parking/Access outside of Park Boundaries: | | Y | N |
| Field journals completed | | Y | N |
| Site sketch made on 1:3000 map? | | Y | N |
| Check cover page | X-axis Bearing of plot recorded | Y | N |
| | GPS coords. Recorded | Y | N |
| | North direction recorded | Y | N |
| | Photographs taken? | Y | N |
| Plot No., Date agreement on all pages? | | Y | N |
| Header data completed all pages? | | Y | N |
| Cover classes recorded in all Intensive modules | | Y | N |
| Browse Level By Species | | Y | N |
| Woody stem quality control check | | Y | N |
| Invasive plant quality control check | | Y | N |
| Ash trees mapped | | Y | N |
| Cover by Strata? (confirm cover type) | | Y | N |
| Soil samples collected with matching plot #. | | Y | N |
| Vouchers labeled on datasheet with initials and number | | Y | N |
| Vouchers labeled on collection bag | | Y | N |
| Pink flags removed | | Y | N |
| Data sheet QA before leaving site? | | Y | N |
| Common equipment returned to tub | | Y | N |
| Data sheets scanned? | | 8/8/2013 | Enter date to left RC |
| Final data sheets scanned? | | | Enter date to left |
| Buffer Widths measured? | | Y | N |
| Web Soil Survey | | BB | 6-28-13 |
| Voucher Location (# vouchers collected) SJC | Refrigerator | Y | N |
| | Press (#) | Y | N |
| | Drier | Y | N |
| | Identified | Y | N |
| | Mounted | Y | N |
| | Thrown away | Y | 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

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Page 1 of 2

| | | |
|---|---|-----------------|
| GENERAL INFORMATION | | LOCATION |
| Project Label: | PCAP | |
| Project Name: | 015C2013 | |
| Plot Name: | Mosquitos Mill - Pdes. Rd., Ohio City! Plot No.: 1384 | |
| <input type="checkbox"/> Level 4 (no nested corners sampled) <input checked="" type="checkbox"/> Level 5 (nested corners sampled) | | |
| Date (mm/dd/yyyy): 08/08/2013 | | |
| End date (if > 1 day): / / | | |
| Party | | |
| S. Catella | Role** | |
| R. Chesler | Plot leader | |
| T. Lacerda | Woodsy | |
| R. Andrews | Ass't | |
| <small>** Roles: Co-leader, Ass't, Guide, Owner, Taxonomist, etc.</small> | | |
| PLOT NOT SAMPLED: <input type="checkbox"/> Other | | |
| <input type="checkbox"/> Perm. water <input type="checkbox"/> Paved <input type="checkbox"/> Slope <input type="checkbox"/> Safety | | |
| SAMPLING QUALITY* | | |
| Effort Level: <input checked="" type="checkbox"/> Very thorough <input type="checkbox"/> Accurate <input type="checkbox"/> Hurned | | |
| <small>subjective evaluation of how much effort put into sampling. Hurried plots may still provide good data</small> | | |
| TAXONOMIC STANDARD | | |
| Authority: G&C Pub Date: 1998 <small>Minimum required fields in Bold and Underlined</small> | | |

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

Map showing plot layout (1x5) with GPS points and notes:

Plot layout notes:

- Location: Part at the small parking lot west of the bridge on Chagrin Boulevard and walk east on the bridge. Plot is between the road and the creek.
- Rationale: G&TS
- Veg. Char: Canopy - Acer negundo, Fraxinus (sp. & pen.), and Juglans nigra were dominant. Populus deltoides shaded in as well.
- Shrub - changed herb layer to 0-2m so the only stuff in the shrub layer were 2 big prairie bushes
- Herb - dominated by Verbena and Hydrophyllum canadense.
- Back mode (5) was dominated by Phragmites.

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet



Project Label: PCAP

Project Name: DISC2013

Plot No.: 384

MODIFIED NATUREERVE CLASS*

CODE (on separate form): LDI

Fit= Conf=

COMMUNITY NAME:
Mesic
FloodplainSLK
AR 15-15HOMOGENEITY

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

HYDROLOGIC REGIME*

- Upland (seldom flooded) Intermittently flooded
 Intermittently/seasonally saturated (seldom flooded) Semipermanently flooded
 Permanently/Semipermanent. saturated (dry <1/yr, seldom flooded) Permanently flooded
 Occasionally flooded (<1/yr) Tidal/Seiche flooded daily
 Temporarily flooded (e.g. wind, storms) Tidal/Seiche flooded monthly
 (by default unless plot is a wetland) Unknown

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

Biggest problem was that flags were missing due to the trail that ran through mod 3. There were two pins near trail that might be pulled, and one right along side the creek so it might get washed away. Erosion was moderate along that side. Rained heavily off and on throughout the day so veg. char. might've been compromised at first due to heavy trample.

| MODIFIED NATUREERVE CLASS* | | DISTURBANCES | | | |
|----------------------------|------------|--------------|-----------|--------------------|--|
| type* | severity** | yrs ago | % of plot | description | |
| Human | M | 0 | 8 | sanctioned trail | |
| Natural | M | 0 | 100 | erosion along bank | |
| Fire | | | | | |
| Cut | | | | | |
| Animal | ML | 0 | 100 | deer browse | |
| Other | | | | | |

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

Current Land Use: CRP

Former Land Use: UNK

Page 2 of 2

CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet 22

Project Label:

PCAP

Project name: 0150-201

Prior to... 1307

Page _____ of _____

Total modules: 5 Intensive modules

Intensive modules: 4 Plot configuration: 1x3

Plot area (ha): 0.05

2413

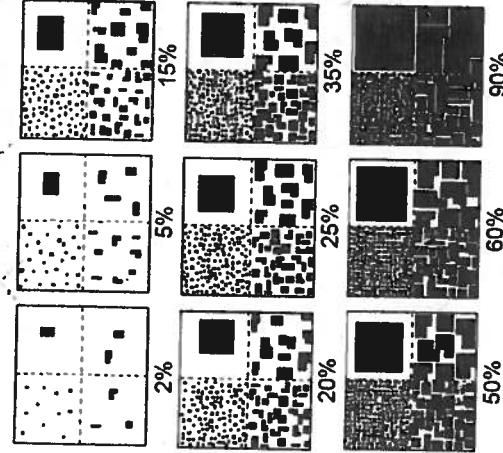


Gewerbe
Marktspark

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

EXAMPLES OF PERCENT OF AREA COVERED

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



BROWSE RATING NARRATIVE DESCRIPTION

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

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

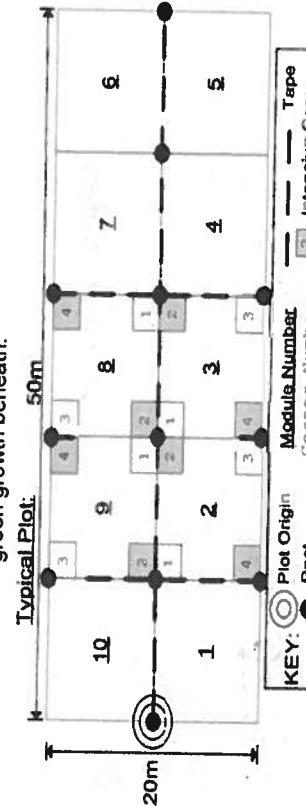
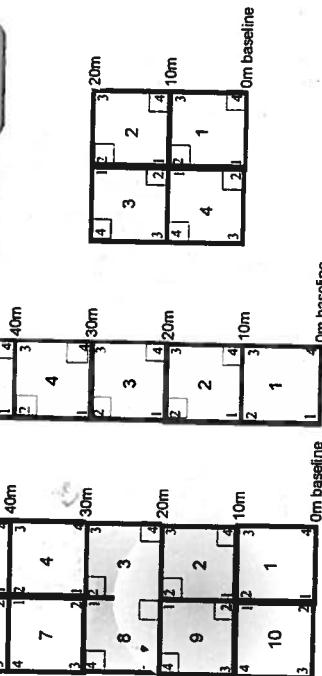
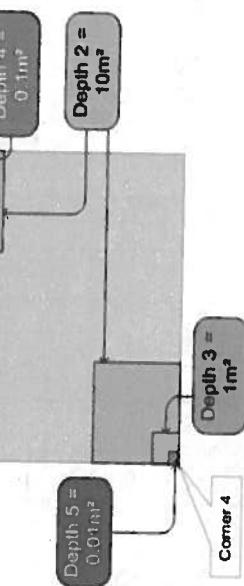
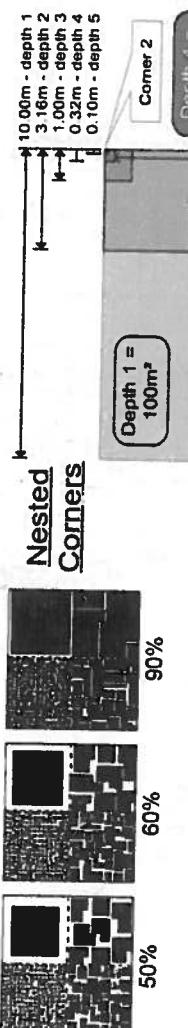
MEDIUM: browse affects greater than 10 percent and less than 25 percent of stems in the 1 m² nested quadrat and intensive module. A browse line is usually not evident or obvious for all classes and species of vegetation, but careful examination may show preferential browse and/or browse lines for some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

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

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

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

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



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

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

Project Label: **PCAF**

Project name: DS-Lab

Plot no.: 1334

Page 2 of 2

Total modules: 5 Intensive modules: 4 Plot configuration: 1x5



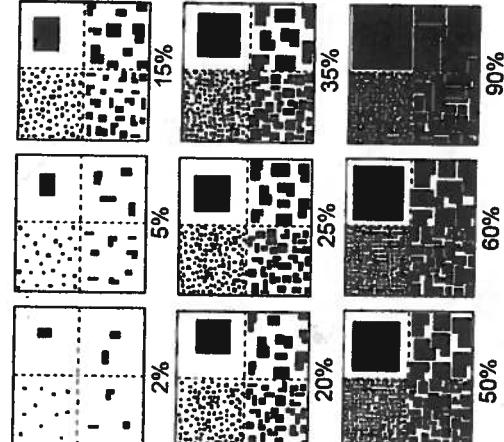
Cleveland Metroparks describe amount of browse per species over entire plot

describe amount of browse per species over entire plot

Estimate for each intensive module:

EXAMPLES OF PERCENT OF AREA COVERED

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



BROWSE RATING NARRATIVE DESCRIPTION

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

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

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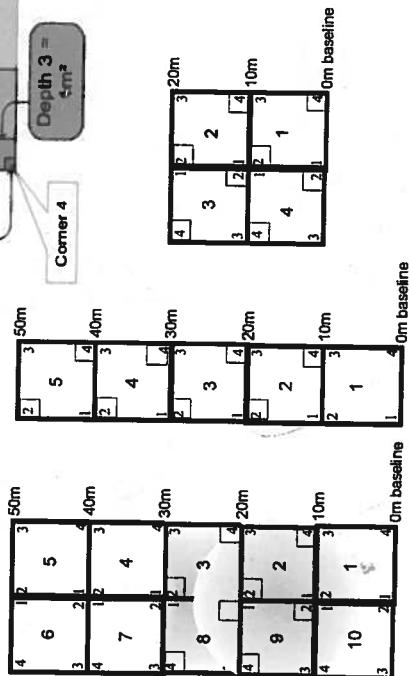
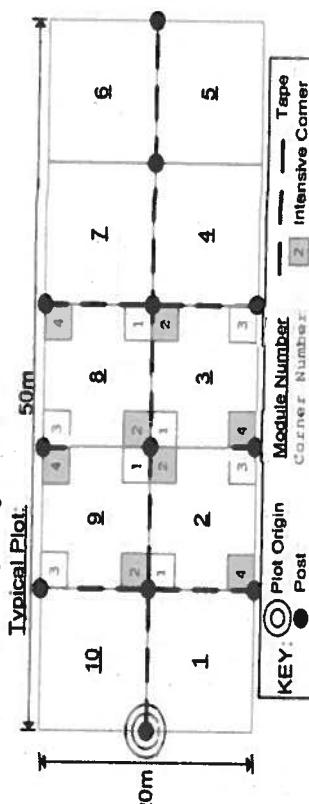
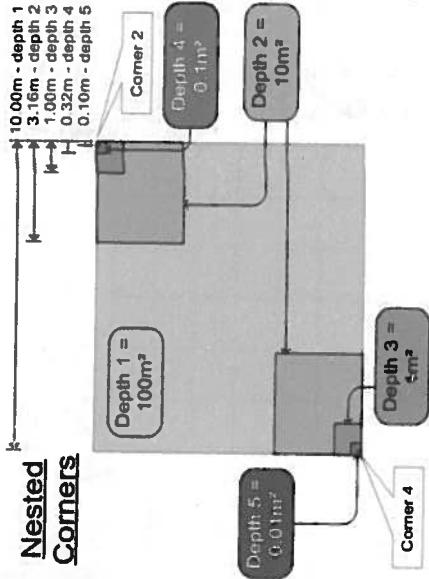
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VERY HIGH values include extensive browse conditions, where the browse line is very evident AND almost all seedlings and herbs are severely browsed or missing.

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

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



CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheets

Project Label: PCAP

Explain subsample (additional room on back)

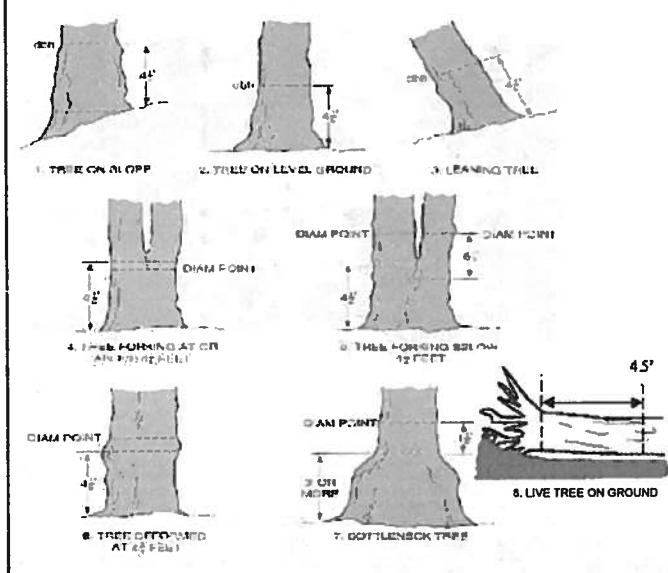
Project Name: Biscion

Plot No.: 1

Page

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DBH Measurement Rules



Woody Stem Deer Browse

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

Record using the tally system from 1 to 10



1



2



3



4



5

ASH CANOPY CONDITION

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



A

B

C

D

E

ASH CANOPY BREAKUP CONDITION (for dead trees):

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

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

CLEVELAND METROPARKS Emerald Ash Borer - Fraxinus Sheet

Project Label: PCAP

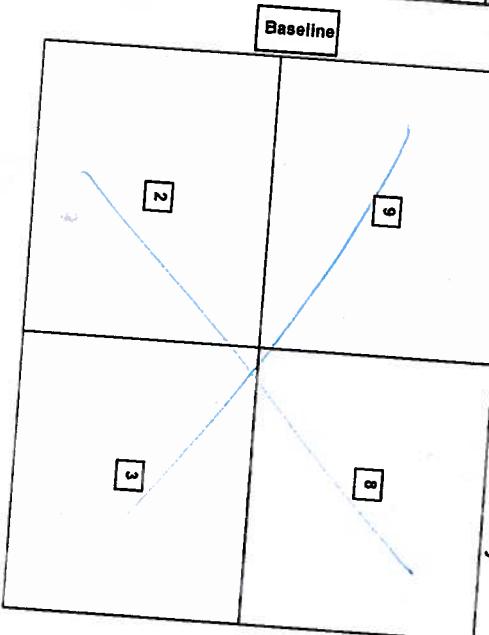
Project Name: 05/2013

INTENSIVE MODULES ONLY TREES ≥ 10CM ONLY
Plot No.: 1384 Date: 4/8/2013

Page: 1 of 2
PCAP Measurement

| Module ID. | Tree ID. | Species | Dead c | Voucher # | DBH (cm) | Ht @ DBH | Ash condition | *Dead holes | ASH Only | Epicormic present | Woodpecker holes |
|------------|----------|-----------------------------------|--------|-----------|----------|----------|---------------|-------------|----------|-------------------|------------------|
| 1 | 1 | <i>Fraxinus pennsylvanica</i> | | | 23.1 | 3 | na | 0 | 1 | 1 | |
| 1 | 2 | Fraxinus pennsylvanica | | | | | | | | | |
| 3 | 4 | <i>Fraxinus pennsylvanica</i> | | | 31.0 | 4 | na | 0 | 0 | 1 | |
| 3 | 5 | <i>Fraxinus sp.</i> | | | 38.5 | 2 | na | 0 | 0 | 0 | |
| 4 | 6 | <i>Fraxinus pennsylvanica</i> | | | 24.1 | 3 | na | 0 | 1 | 0 | |
| 4 | 7 | <i>Fraxinus sp.</i> | | | 11.0 | 1 | na | 0 | 1 | 1 | |
| 4 | 8 | <i>Fraxinus sp.</i> | | | 21.7 | 1 | na | 0 | 1 | 0 | |
| 4 | 9 | <i>Fraxinus sp.</i> | | | 25.7 | 1 | na | 0 | 0 | 1 | |
| 10 | 10 | <i>Fraxinus sp.</i> | | | 29.0 | 1 | na | 0 | 0 | 0 | |
| 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



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

* If Ash Condition scores 5 (dead) provide breakup score (A-E)
Count EAB exit holes 1.25m² x ≥1.5m
Woodpecker and epicormic marked present (1) or absent (0)

CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey



| Tier 1: Early detection/ Rapid response | | Presence | | | | GPS |
|--|-----------------------------|-------------|----|----|----------|-------------|
| | | NE | SE | SW | NW | |
| <i>Microstegium vimineum</i> | Japanese stiltgrass | | | | | |
| <i>Ranunculus ficaria</i> | Lesser Celandine | | | | | |
| <i>Cynanchum louiseae</i> (vine) | Black Swallow-wort | | | | | |
| <i>Butomus umbellatus</i> (wetland) | Flowering Rush | | | | | |
| <i>Heracleum mantegazzianum</i> | Giant Hogweed | | | | | |
| Tier 2: Assess as Needed | | # of Plants | | | comments | |
| | | NE | SE | SW | NW | |
| <i>Acer platanoides</i> | Norway Maple | | | | | |
| <i>Ailanthus altissima</i> | Tree of Heaven | | | | | |
| <i>Lonicera japonica</i> (vine) | Japanese Honeysuckle | 1 | | | | SRE 12-4-13 |
| <i>Lythrum salicaria</i> (wetland) | Purple Loosestrife | | | | | |
| <i>Aegopodium podagraria</i> (G-cover) | Bishop's Goutweed | | | | | |
| <i>Celastrus orbiculatus</i> (vine) | Asian Bittersweet | | | | | |
| <i>Torilis sp.</i> | Hedgeparsley | | | | | |
| <i>Conium maculatum</i> | Poison Hemlock | | | | | |
| <i>Rhamnus cathartica</i> | Common Buckthorn (shrub) | | | | | |
| <i>Berberis thunbergii</i> | Japanese Barberry (shrub) | 1 | X | | | |
| <i>Alnus glutinosa</i> | European Alder | | | | | |
| <i>Dipsacus laciniatus</i> | Cut-leaf Teasel | | | | | |
| <i>Elaeagnus umbellata</i> | Autumn Olive (shrub) | | | | | |
| <i>Lonicera maackii</i> | Amur Honeysuckle (shrub) | | | | | |
| <i>Euonymus fortunei</i> | Wintercreeper | | | | | |
| Tier 3: Presence is of Interest | | # of Plants | | | comments | |
| | | NE | SE | SW | NW | |
| <i>Convallaria majalis</i> (G-cover) | Lily of the Valley | | | | | |
| <i>Coronilla varia</i> (G-cover) | Crown Vetch | | | | | |
| <i>Eleutherococcus pentaphylloides</i> | Five-leaf Aralia (shrub) | | | | | |
| <i>Pachysandra terminalis</i> (G-cover) | Japanese Pachysandra | | | | | |
| <i>Philadelphus coronarius</i> | Mock Orange (shrub) | | | | | |
| <i>Pulmonaria officinalis</i> (G-cover) | Lungwort | | | | | |
| <i>Rubus phoenicolasius</i> | Wineberry | | | | | |
| <i>Iris pseudacorus</i> (wetland) | Yellow Flag Iris | | | | | |
| <i>Ornithogalum umbellatum</i> | Star of Bethlehem | | | | | |
| <i>Viburnum opulus</i> var. <i>opulus</i> | European Cranberry (shrub) | | | | | |
| <i>Viburnum plicatum</i> | Doublefile Viburnum (shrub) | | | | | |
| Tier 4: Widespread and abundant | | Presence | | | comments | |
| | | NE | SE | SW | NW | |
| <i>Alliaria petiolata</i> | Garlic Mustard | 4 | 3 | 2 | | |
| <i>Ligustrum vulgare</i> | Common Privet (shrub) | 2 | 1 | 1 | 1 | |
| <i>L. morrowii</i> , <i>L. tatarica</i> | Bush Honeysuckles (shrub) | 1 | | | | SRE 12-4-13 |
| <i>Phalaris arundinacea</i> | Reed Canarygrass | | | | | |
| <i>Phragmites australis</i> (wetland) | Phragmites | 1 | | | | SRE 12-4-13 |
| <i>Polygonum cuspidatum</i> | Japanese Knotweed | | | | | |
| <i>Frangula alnus</i> | Glossy Buckthorn (shrub) | 2 | 3 | | | |
| <i>Rosa multiflora</i> | Multiflora Rose (shrub) | 2 | 2 | 1 | | |
| <i>Typha angustifolia</i> , <i>T. x glauca</i> | Cattails (wetland) | | | | | |
| <i>Cirsium arvense</i> | Canada thistle | | | | | |
| <i>Dipsacus fullonum</i> | Common Teasel | | | | | |
| <i>Hesperis matronalis</i> | Dame's Rocket | | | | | |
| <i>Vinca minor</i> (G-cover) | Periwinkle | | | | | |

| |
|----------|
| Presence |
| X: yes |

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

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

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

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

4bCM PCAP Invasive species datasheet.xls last revised 6/11/2012 ceh

Natural Resources

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 VBL-E score calculation. C? - check when collected

| Module # | C? | Corner 1 | Corner 3 |
|----------|----|----------|----------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

CLASSIFICATION

(Fit = excellent; ½ Fit and Confidence)

Hydrogeomorphic class (WETLANDS ONLY):

 DEPRESSION IMPOUNDMENT RIVERINE SLOPE FRINGING COASTAL BOG (strongly/moderately/weakly ombrotrophic)

Ohio EPA VBL Plant Community Class (WETLANDS ONLY):

 FOREST EMERGENT SHRUB swamp forest emergent shrub swamp marsh wet meadow open bog tall sh. bog tall sh. fen

Fit=

Fit=

Conf=

Conf=

Fit=

Conf=

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

MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only

Rank 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 (1-3) to begin + any features present

Slope 1 = slight elevational grade across module (hill) Slope 2 = fails on slope ~20° Slope 3 = maximum steepness that can be safely sampled ~45°

0 feature is absent or functionally absent from the wetland

3 feature is present in the wetland 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 | | | | | | |
|--|-----------------|------------------------|------------------|------------------|---------------|-----------------------|
| no. of tussocks | no. of hummocks | no. macro. depressions | c.w.d. (2-12 cm) | c.w.d. (12-40cm) | c.w.d. >40 cm | microhab. interspers. |
| 1 | 0 | 0 | 2 | 3 | 0 | 4 |
| 2 | 0 | 0 | 6 | 2 | 4 | 0 |
| 3 | 0 | 0 | 2 | 0 | 0 | 0 |
| 4 | 0 | 1 | 13 | 5 | 4 | 0 |
| | | | 14 | 0 | 23 | 0 |

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

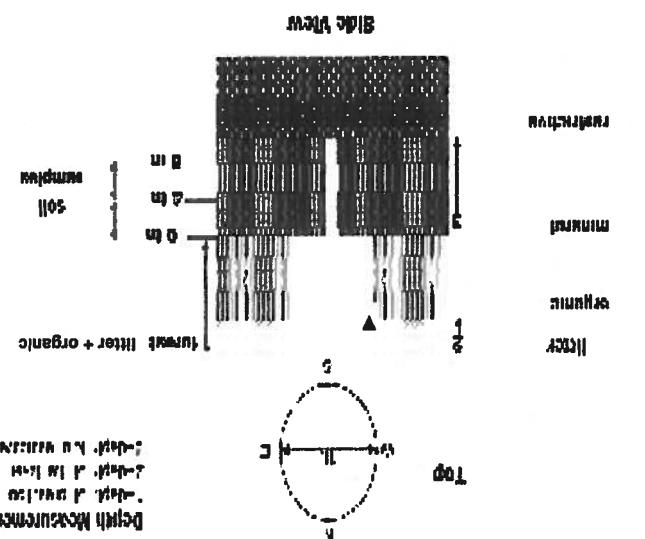
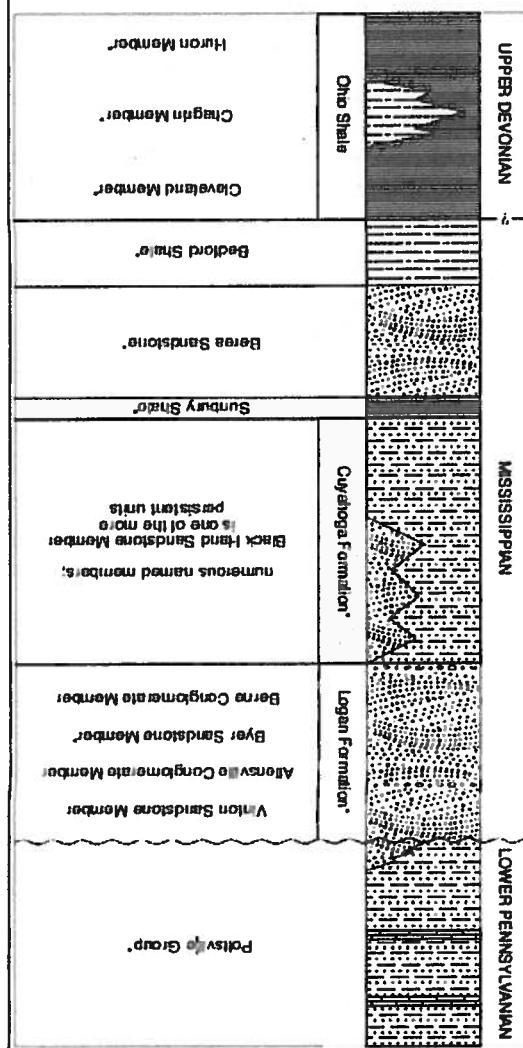
| Module | N | S | E | W |
|--------|----|----|----|----|
| 1 | 35 | 19 | 21 | 24 |
| 2 | 22 | 24 | 39 | 20 |
| 3 | 7 | 17 | 16 | 18 |
| 4 | 16 | 23 | 33 | 28 |

LFI 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 standing ~10 m away.

Landscape Index (position within landscape)

Terrain Shape Index (the microtopographic shape)

FIGURE 2-30 - Cross-sectional view of a typical low-voltage distribution transformer. The core consists of two stacked laminations. The primary coil is wound on the bottom leg, and the secondary coil is wound on the top leg. The core is bolted to a base plate which supports the entire assembly. The base plate also provides a ground connection for the transformer.



...very tall shrubs are sometimes included in the tree stratum. Can also include seedlings of shrubs, i.e., all shrubs <0.5m ...Tree seedlings are often defined as up to 1.4 m height or as <2.5 cm DBH in which case they would span the herb and shrub layers.

CLEVELAND METROPARKS Plant Community Assessment Program - Soils, Crown Cover, Standing Biomass Data Sheet 6a
 Project Label: PCAP Project Name: OSLC 2013

Plot No.: 1384

Cleveland Metroparks

Page: 1 of 1

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

Soil pit module # 2 (one per entire plot)

| | | |
|-------|------------------|-----------|
| 5 cm | matrix color | 2.5 Y 3/3 |
| | moisture color | N/A |
| | *saturation | 0 |
| | oxid. tools | Y N |
| | texture* | 2 |
| | redox features** | Y N |
| | hydr. cond. *** | I S M D |
| 20 cm | matrix color | 1.5 Y 3/3 |
| | moisture color | N/A |
| | %anerobic | 0 |
| | oxid. tools | Y N |
| | texture* | 2 |
| | redox features** | Y N |
| | hydr. cond. *** | I S M D |

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

| | |
|--|-------------------|
| Soil Collection Module | Horizon (A, B, C) |
| 1,2,3,4 | A |
| 2,3,4=Composite | |
| Web Soil Survey Information: | |
| Soil Series/Type: Th - Fager Vinton loam | |
| Soil Series/Source: Ohio Soil Survey | |
| Landform type: Stream terraces | |
| Depth to rest. layer: 80+ in | |
| Parent Material: Alluvium | |
| DRAINAGE: | |
| Well drained | |
| Excessively dry | |
| Somewhat poorly drained | |
| Impenetrable surface | |

| EARTH SURFACE & GROUND COVER | |
|------------------------------|----------------------------------|
| Underlying Earth Surface* | Ground Cover |
| (Num = 100%) | percent (Each ≤ 100%) |
| Hilstol | 0 percent Coarse Woody Debris*** |
| Mineral Soil | 100 percent Fine Woody Debris*** |
| Gravel-Cobble* | 0 percent Litter |
| Boulder** | 0 percent Duff (Fern + Humus) |
| Bedrock | 0 percent Bryophyte-Lichen |
| | Water |
| **Gravel-Cobble == 1/16-1" | 0 |
| **Boulder == > 10 in | 2 |
| ***>5 cm in diameter | 3 |
| <5 cm in diameter | 1 |
| Other | |

COVER BY STRATA
estimate using midpoints of 5, ex: 3, 8, 13 %

STAND SIZE

| | | |
|--------|------------------|-----------------|
| Strata | Height Range (m) | Total Cover (%) |
| Tree | 5 - | 58 |
| Shrub | 2 - 5 | 3 |
| Herb | 0 - 2 | 0% |

| | |
|--|--------------------|
| | >600 x plot size |
| | > 100 x plot size |
| | 10-100 x plot size |
| | 3-10 x plot size |
| | 1-3 x plot size |
| | < plot size |

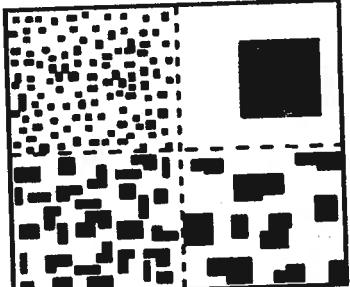
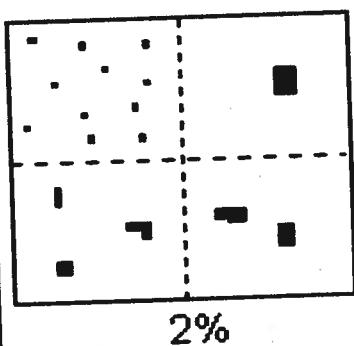
| | | | |
|------------------------------|----------------------------|---------------------|-----------------|
| 1 litter+ organic depth (cm) | 1 litter+ water depth (cm) | 2 litter depth (cm) | depth soil (cm) |
| 1 | 0.1 | 0.1 | 0 >20 |
| 2 | 0.1 | 0.1 | 0 >20 |
| 3 | 0.1 | 0.1 | 0 >20 |
| 4 | 0.1 | 0.1 | 0 >20 |

* 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.

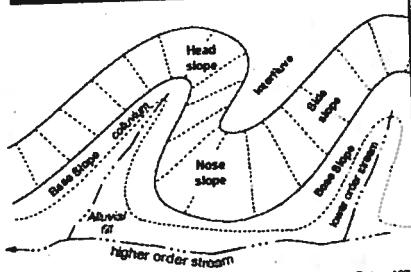
PERCENT MOTTLES (USE CLASS CODES):

| Class | Code | NASIS | Criteria: % of Surface Area Covered |
|--------|------|-------|-------------------------------------|
| Conv. | | | |
| Few | f | # | < 2 |
| Common | c | # | 2 to < 20 |
| Many | m | # | ≥ 20 |

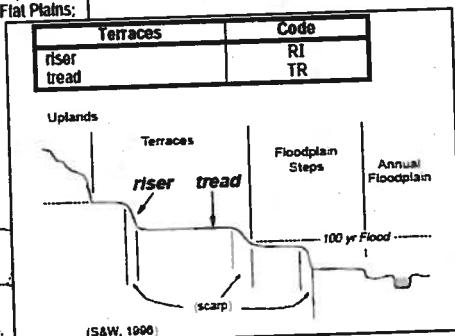


Geomorphic Component - Three-dimensional descriptors of parts of landforms or microfeatures that are best applied to areas. Unique descriptors are available for Hills, Terraces, Mountains, and Flat Plains; e.g., (for Hills) nose slope or NS.

| Hills | Code | NASIS |
|------------|------|-------|
| PDP | | |
| interfluve | IF | IF |
| head slope | HS | HS |
| nose slope | NS | NS |
| side slope | SS | SS |
| base slope | -- | BS |

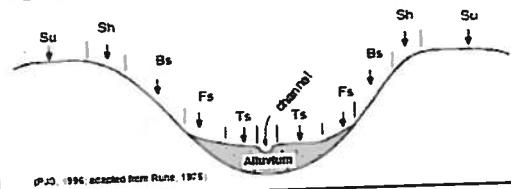


(PJS, 1990; adapted from Riche, 1975)



Hillslope - Profile Position (Hillslope Position in PDP) - Two-dimensional descriptors of parts of line segments (i.e., slope position) along a transect that runs up and down the slope; e.g., backslope or BS. This is best applied to transects or points, not areas.

| Position | Code |
|-----------|------|
| summit | SU |
| shoulder | SH |
| backslope | BS |
| footslope | FS |
| toeslope | TS |



(PJS, 1990; adapted from Riche, 1975)

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

UPLAND: Not a wetland. Very rarely flooded.

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

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

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

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

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

SEMIPERMANENTLY FLOODED (exposed <1/year): Surface water persists throughout the growing season in most years. Land surface is normally saturated when water level drops below soil surface. Includes Cowardin's Intermittently Exposed and Semipermanently Flooded modifiers.

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

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

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Site ID:

PLAPSC 1384

Reviewed by (Initial): _____

DATE: 08 / 08 / 2013

Location:

O AA Center O N O S O E O W

Fill in bubble(s) if plot(s) could not be sampled and flag →
O Plot 1 O Plot 2 O Plot 3

Buffer Natural Cover Strata

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

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

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

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

Residential and Urban Stressors

| 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 |
|-------------------------------|-----------------------|-----------------------|-----------------------|------|---|-----------------------|-----------------------|-----------------------|------|--|-----------------------|-----------------------|-----------------------|------|
| | 1 | 2 | 3 | Flag | | 1 | 2 | 3 | Flag | | 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 ROWCROP 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/Multi-family | <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

| 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 |
|-------------------------------|-----------------------|-----------------------|-----------------------|------|---|-----------------------|-----------------------|-----------------------|------|--|-----------------------|-----------------------|-----------------------|------|
| | 1 | 2 | 3 | Flag | | 1 | 2 | 3 | Flag | | 1 | 2 | 3 | Flag |
| Oil Drilling | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Forest Clear Cut | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Herbicide Use | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Gas Wells | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Forest Selective Cut | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Mowing/Shrub Cutting | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Mine (surface) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Tree Plantation | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Trails | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Mine (underground) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Tree Canopy Herbivory (INSECT) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Soil Compaction (ANIMAL OR HUMAN) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Military | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Shrub Layer browsed (WILD OR DOMESTIC) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Offroad vehicle damage | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Highly Grazed Grasses (OVERALL > 3 HIGH) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Soil erosion (FROM WIND, WATER, OR OVERUSE) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Recently Burned Forest Canopy | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Recently Burned Grassland (BLACKENED) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |

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

Buffer Sample Plots 05/27/2011

2428168304

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

Reviewed by (Initials):

Site ID: PCAPSCL384

DATE: 08 / 08 / 2013

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

| Confirm a listed data source | | | | | | | | | | | | | | |
|-------------------------------|-----------------------|-----------------------|-----------------------|------|-------------------------------|-----------------------|-----------------------|-----------------------|------|-------------------------------|-----------------------|-----------------------|-----------------------|------|
| Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag |
| Eurasian Watermilfoil | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Purple Loosestrife | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Johnson Grass | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Water hyacinth | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Knotweed | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Kudzu | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Yellow Floating Heart | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Japanese Knotweed | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Multiflora Rose | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Giant Salvinia | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Perennial Pepperweed | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Common Buckthorn | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Garlic Mustard | <input 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):

M CENTER N3 S3 E3 W3

● Nearest practicable location (flag and comment below)

Flag

Latitude North

41 43932

Longitude West

081.406.95

Use Decimal Degrees: NAD83

7966623548

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): _____

Site ID: PCAPSC1384

DATE: 08 / 08 / 2013

Location:

○ AACenter ON ○ S OE OW

Fill in bubble(s) if plot(s) could not be sampled and flag →
 Plot 1 Plot 2 Plot 3

I

Buffer Natural Cover Strata

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

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

| 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"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | Forest Clear Cut | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | Herbicide Use | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | |
| Gas Wells | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | Forest Selective Cut | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | Mowing/Shrub Cutting | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | |
| Mine (surface) | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | Tree Plantation | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | Trails | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | |
| Mine (underground) | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | Tree Canopy Herbivory (INSECT) | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | Soil Compaction (ANIMAL OR HUMAN) | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | |
| Military | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | Shrub Layer Browsed (WILD OR DOMESTIC) | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | Offroad vehicle damage | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | |
| Other: _____ | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | Highly Grazed Grasses (OVERALL <3' HIGH) | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | Soil erosion (FROM WIND, WATER, OR OVERUSE) | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | |
| Other: _____ | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | Recently Burned Forest Canopy | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | Other: _____ | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | |
| Other: _____ | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | Recently Burned Grassland (BLACKENED) | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | Other: _____ | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | |

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 _____

Reviewed by (Initial): _____

Site ID: PCA9SC1384

DATE: 08 / 08 / 2013

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

| Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag |
|-------------------------------|-----------------------|-----------------------|-----------------------|------|-------------------------------|-----------------------|-----------------------|-----------------------|------|-------------------------------|-----------------------|-----------------------|-----------------------|------|
| Eurasian Watermilfoil | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Purple Loosestrife | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Johnson Grass | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Water hyacinth | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Knotweed | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Kudzu | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Yellow Floating Heart | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Japanese Knotweed | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Multiflora Rose | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Giant Salvinia | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Perennial Pepperweed | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Common Buckthorn | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Garlic Mustard | <input 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):

AA CENTER N3 S3 E3 W3

● Nearest practicable location (flag and comment below)

Flag

Latitude North

4.1.4.3.9.1.6

Longitude West

0.81 406.08

Use Decimal Degrees: NAD83

7966623548

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (initial): _____

Site ID: PCAPSC1384

DATE: 08/09/2013

Location:

O AA Center

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

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

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

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

| Residential and Urban Stressors | | | | Hydrology Stressors | | | | Agricultural & Rural Stressors | | | | | | | |
|---------------------------------|----------------------------------|-----------------------|-----------------------|---------------------|--|-----------------------|-----------------------|--------------------------------|------|---|----------------------|-----------------------|-----------------------|-----------------------|------|
| Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag | II b | Ia if present - Plot | 1 | 2 | 3 | Flag |
| Road - gravel | <input checked="" 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 checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Dike/Dam/Road/RR Bed IMPERMEABLE | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Range | | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Road - four lane | <input checked="" 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 checked="" 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 checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Fill/Soil Banks | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Fallow Field (GRASS, SHRUBS, TREES) | | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Lawn/Park | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Freshly Deposited Sediment (IMPERMEABLE) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Nursery | | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Suburban Residential | <input checked="" 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 checked="" 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 checked="" 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 checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Point Source/Pipe (EQUILIBRIUM OR STORMWATER) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Rural Residential | | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Trash | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Impervious surface input (STREAMFLOW) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Gravel Pit | | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Other: | <input checked="" 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 checked="" 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 checked="" 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 checked="" 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 checked="" 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 checked="" 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 checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Shrub Layer Browsed (WILD OR DOMESTIC) | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | | Off-road vehicle damage | | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Other: | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Highly Grazed Grasses (MEDIUM <5' HIGH) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Soil erosion (FROZEN/WIND, WATER, GROVE/BRUSH) | | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Other: | <input checked="" 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 checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Recently Burned Grassland (BURNED) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Other: | | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |

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

Buffer Sample Plots 05/27/2011

2428168304

FORM B-1: BUFFER SAMPLE PLOTS - TRANSLATED ALLEN SPECIES RECORD

○ Contains a filled data bubble indicating presence and an unfilled bubble indicating absence by clicking the data bubbles

— 1 —

301301

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

7966623548

| Plot Number | | Plot Location | | Plot Description | | Plot Type | | Plot Condition | | Plot Features | | Plot Status | | Plot Management | | Plot History | | Plot Summary | | |
|-------------|--------|----------------|----------------|------------------|-----------|-----------|------------------|----------------|---------------|---------------|-----------------|--------------|--------------|-----------------|-----------------|--------------|--------------|--------------|-----------------|---|
| Row | Column | Latitude North | Longitude West | Plot ID | Plot Name | Plot Type | Plot Description | Plot Condition | Plot Features | Plot Status | Plot Management | Plot History | Plot Summary | Plot Status | Plot Management | Plot History | Plot Summary | Plot Status | Plot Management | |
| 1 | 1 | 41 | 40640 | Plot 1 | Plot 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 1 | 2 | 41 | 40640 | Plot 2 | Plot 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 1 | 3 | 41 | 40640 | Plot 3 | Plot 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 2 | 1 | 41 | 40640 | Plot 4 | Plot 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 2 | 2 | 41 | 40640 | Plot 5 | Plot 5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 2 | 3 | 41 | 40640 | Plot 6 | Plot 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 3 | 1 | 41 | 40640 | Plot 7 | Plot 7 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 3 | 2 | 41 | 40640 | Plot 8 | Plot 8 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 3 | 3 | 41 | 40640 | Plot 9 | Plot 9 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 4 | 1 | 41 | 40640 | Plot 10 | Plot 10 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 4 | 2 | 41 | 40640 | Plot 11 | Plot 11 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 4 | 3 | 41 | 40640 | Plot 12 | Plot 12 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 5 | 1 | 41 | 40640 | Plot 13 | Plot 13 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 5 | 2 | 41 | 40640 | Plot 14 | Plot 14 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 5 | 3 | 41 | 40640 | Plot 15 | Plot 15 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 6 | 1 | 41 | 40640 | Plot 16 | Plot 16 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 6 | 2 | 41 | 40640 | Plot 17 | Plot 17 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 6 | 3 | 41 | 40640 | Plot 18 | Plot 18 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 7 | 1 | 41 | 40640 | Plot 19 | Plot 19 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 7 | 2 | 41 | 40640 | Plot 20 | Plot 20 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 7 | 3 | 41 | 40640 | Plot 21 | Plot 21 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 8 | 1 | 41 | 40640 | Plot 22 | Plot 22 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 8 | 2 | 41 | 40640 | Plot 23 | Plot 23 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 8 | 3 | 41 | 40640 | Plot 24 | Plot 24 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 9 | 1 | 41 | 40640 | Plot 25 | Plot 25 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 9 | 2 | 41 | 40640 | Plot 26 | Plot 26 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 9 | 3 | 41 | 40640 | Plot 27 | Plot 27 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 10 | 1 | 41 | 40640 | Plot 28 | Plot 28 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 10 | 2 | 41 | 40640 | Plot 29 | Plot 29 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 10 | 3 | 41 | 40640 | Plot 30 | Plot 30 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 11 | 1 | 41 | 40640 | Plot 31 | Plot 31 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 11 | 2 | 41 | 40640 | Plot 32 | Plot 32 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 11 | 3 | 41 | 40640 | Plot 33 | Plot 33 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 12 | 1 | 41 | 40640 | Plot 34 | Plot 34 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 12 | 2 | 41 | 40640 | Plot 35 | Plot 35 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 12 | 3 | 41 | 40640 | Plot 36 | Plot 36 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 13 | 1 | 41 | 40640 | Plot 37 | Plot 37 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 13 | 2 | 41 | 40640 | Plot 38 | Plot 38 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 13 | 3 | 41 | 40640 | Plot 39 | Plot 39 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 14 | 1 | 41 | 40640 | Plot 40 | Plot 40 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 14 | 2 | 41 | 40640 | Plot 41 | Plot 41 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 14 | 3 | 41 | 40640 | Plot 42 | Plot 42 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 15 | 1 | 41 | 40640 | Plot 43 | Plot 43 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 15 | 2 | 41 | 40640 | Plot 44 | Plot 44 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 15 | 3 | 41 | 40640 | Plot 45 | Plot 45 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 16 | 1 | 41 | 40640 | Plot 46 | Plot 46 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 16 | 2 | 41 | 40640 | Plot 47 | Plot 47 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 16 | 3 | 41 | 40640 | Plot 48 | Plot 48 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 17 | 1 | 41 | 40640 | Plot 49 | Plot 49 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 17 | 2 | 41 | 40640 | Plot 50 | Plot 50 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 17 | 3 | 41 | 40640 | Plot 51 | Plot 51 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 18 | 1 | 41 | 40640 | Plot 52 | Plot 52 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 18 | 2 | 41 | 40640 | Plot 53 | Plot 53 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 18 | 3 | 41 | 40640 | Plot 54 | Plot 54 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 19 | 1 | 41 | 40640 | Plot 55 | Plot 55 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 19 | 2 | 41 | 40640 | Plot 56 | Plot 56 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 19 | 3 | 41 | 40640 | Plot 57 | Plot 57 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 20 | 1 | 41 | 40640 | Plot 58 | Plot 58 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 20 | 2 | 41 | 40640 | Plot 59 | Plot 59 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 20 | 3 | 41 | 40640 | Plot 60 | Plot 60 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 21 | 1 | 41 | 40640 | Plot 61 | Plot 61 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 21 | 2 | 41 | 40640 | Plot 62 | Plot 62 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 21 | 3 | 41 | 40640 | Plot 63 | Plot 63 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 22 | 1 | 41 | 40640 | Plot 64 | Plot 64 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 22 | 2 | 41 | 40640 | Plot 65 | Plot 65 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 22 | 3 | 41 | 40640 | Plot 66 | Plot 66 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 23 | 1 | 41 | 40640 | Plot 67 | Plot 67 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 23 | 2 | 41 | 40640 | Plot 68 | Plot 68 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 23 | 3 | 41 | 40640 | Plot 69 | Plot 69 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 24 | 1 | 41 | 40640 | Plot 70 | Plot 70 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 24 | 2 | 41 | 40640 | Plot 71 | Plot 71 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 24 | 3 | 41 | 40640 | Plot 72 | Plot 72 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 25 | 1 | 41 | 40640 | Plot 73 | Plot 73 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 25 | 2 | 41 | 40640 | Plot 74 | Plot 74 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 25 | 3 | 41 | 40640 | Plot 75 | Plot 75 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 26 | 1 | 41 | 40640 | Plot 76 | Plot 76 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 26 | 2 | 41 | 40640 | Plot 77 | Plot 77 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 26 | 3 | 41 | 40640 | Plot 78 | Plot 78 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 27 | 1 | 41 | 40640 | Plot 79 | Plot 79 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 27 | 2 | 41 | 40640 | Plot 80 | Plot 80 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 27 | 3 | 41 | 40640 | Plot 81 | Plot 81 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 28 | 1 | 41 | 40640 | Plot 82 | Plot 82 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 28 | 2 | 41 | 40640 | Plot 83 | Plot 83 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 28 | 3 | 41 | 40640 | Plot 84 | Plot 84 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 29 | 1 | 41 | 40640 | Plot 85 | Plot 85 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 29 | 2 | 41 | 40640 | Plot 86 | Plot 86 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 29 | 3 | 41 | 40640 | Plot 87 | Plot 87 | 1</td | | | | | | | | | | | | | | |

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): _____

Site ID:

PCAPSC1384

DATE: 08 / 08 / 2013

Location:

 AA Center ON OS OE OW
 Plot 1 Plot 2 Plot 3

Buffer Natural Cover Strata

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

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

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

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

Residential and Urban Stressors

Hydrology Stressors

Agricultural & Rural Stressors

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

Industrial Development Stressors

Habitat/Vegetation Stressors

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

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

2428168304

Buffer Sample Plots 05/27/2011

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

Reviewed by (Initials):

Site ID: PCAP1384 PCAPSC1384

DATE: 08 / 08 / 2013

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

| Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag |
|-------------------------------|--------------------------|--------------------------|--------------------------|------|-------------------------------|--------------------------|--------------------------|--------------------------|------|-------------------------------|-------------------------------------|--------------------------|--------------------------|------|
| Eurasian Watermilfoil | <input type="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 checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Giant Salvinia | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Perennial Pepperweed | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Common Buckthorn | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Garlic Mustard | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Giant Reed | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Himalayan Blackberry | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Poison Hemlock | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Cheatgrass | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | Tamarisk | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Mile-A-Minute Weed | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | 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 43 9 42

Longitude West

Use Decimal Degrees; NAD83

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

7966623548

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

Reviewed by (Initials): _____

Site ID: PCLAPSL1384

DATE: 08 / 08 / 2013

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

| Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag |
|-------------------------------|----------------------------------|-----------------------|-----------------------|------|-------------------------------|-----------------------|-----------------------|-----------------------|------|-------------------------------|----------------------------------|-----------------------|-----------------------|------|
| Eurasian Watermilfoil | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Purple Loosestrife | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Johnson Grass | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Water hyacinth | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Knotweed | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Kudzu | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Yellow Floating Heart | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Japanese Knotweed | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Multiflora Rose | <input 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 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"/> | |
| Mill-A-Minute Weed | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Reed Canary Grass | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Other: | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| 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):

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

Flag

Latitude North 41 439 49

Longitude West

Use Decimal Degrees; NAD83

7966623548