

CLEVELAND METROPARKS Plant Community Assessment Program: Quality Control Form



Project Label: _____

PCAP

Plot No: 1281

Date Sampled: 8/8/12

Lead: ZSB

Comment required if item answer is NO

| | | |
|--|--|---|
| Parking/Access outside of Park Boundaries: | Y <input checked="" type="radio"/> N <input type="radio"/> | If yes, write details in Comments section below |
| Field journals completed | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Site sketch made on 1:3000 map? | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Check cover page | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| X-axis Bearing of plot recorded | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| GPS coords. Recorded | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| North direction recorded | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Photographs taken? | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Plot No., Date agreement on all pages? | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Header data completed all pages? | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Cover classes recorded in all Intensive modules | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Browse Level By Species | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Woody stem quality control check | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Invasive plant quality control check | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Ash trees mapped | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Cover by Strata? (confirm cover type) | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Soil samples collected with matching plot #. | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Vouchers labeled on datasheet with initials and number | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Vouchers labeled on collection bag | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Pink flags removed | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Data sheet QA before leaving site? | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Common equipment returned to tub. | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Data sheets scanned? | <u>8-9-12</u> | Enter date to left <u>JP</u> |
| Final data sheets scanned? | | Enter date to left |
| Buffer Widths measured? | <input checked="" type="radio"/> Y <input type="radio"/> N | <u>NZ 7-6-12</u> |
| Web Soil Survey | <input checked="" type="radio"/> Y <input type="radio"/> N | <u>JK 7-27-12</u> |
| Voucher Location | Refrigerator | Y <input type="radio"/> N <input type="radio"/> |
| (# vouchers collected) | Press (#) | Enter number to left |
| | Drier | Y <input type="radio"/> N <input type="radio"/> |
| | Identified | Y <input type="radio"/> N <input type="radio"/> |
| | Mounted | Y <input type="radio"/> N <input type="radio"/> |
| | Thrown away | Y <input type="radio"/> N <input type="radio"/> |

| | |
|---|---|
| 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:

| |
|--|
| |
|--|

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CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

Project Label: PCAP

Project Name: Q1B.2012

Plot No.: 1281

MODIFIED NATURESERVE CLASS*

CODE (on separate form):

Fit= G Conf= H

D

COMMUNITY NAME:

Mixed

DISTURBANCES

| type* | severity** | yrs ago | % of plot | description |
|---------|------------|----------|------------|---------------|
| Human | <u>M</u> | <u>0</u> | <u>100</u> | <u>Trash</u> |
| Natural | | | | |
| Fire | | | | |
| Cut | | | | |
| Animal | <u>M</u> | <u>0</u> | <u>100</u> | <u>Browse</u> |
| Other | | | | |

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

Current Land Use: Park

Former Land Use: unk

HOMOGENEITY

☒ Homogeneous

☐ Compositional trend across the plot

☐ Conspicuous inclusions ☐ Irregular/pattern mosaic

HYDROLOGIC REGIME*

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

(by default unless plot is a wetland)

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

Plot on alongside creek parts of plot may flood in times of heavy rainfall, fallen but still rooted beech in med 1 accounts for much of the shrub layer beech cover.

CI LEVEL AND METROPARKS Plant Community Assessment Program Species Cover Data Sheet 2a

Project | abel:

PCAP

Project name: 01/31/2012

Plot no : 1281

Page 1 of 2

Total modules:

Intensive modules: 2 Plot configuration: 1x2

Plot area (ha): 0.02



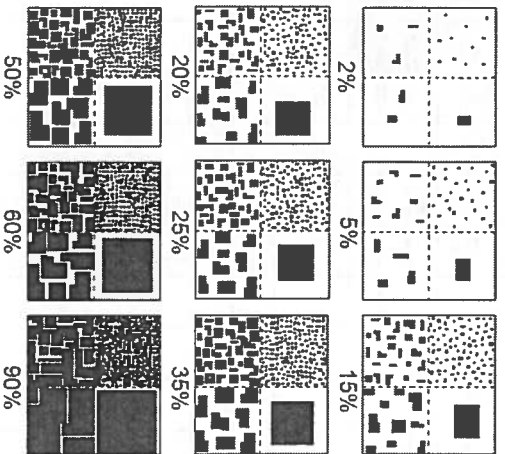
Cleveland Metropanatics

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

[illegible]

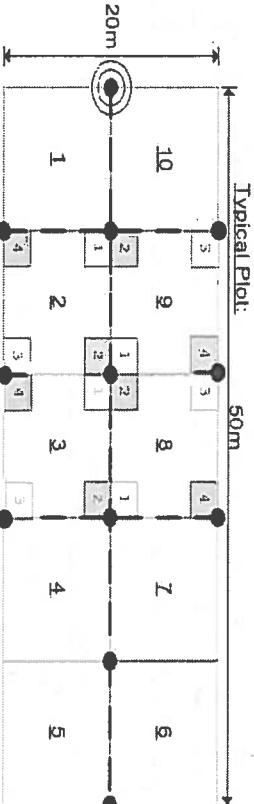
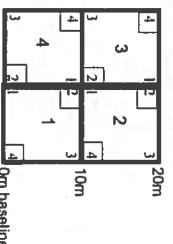
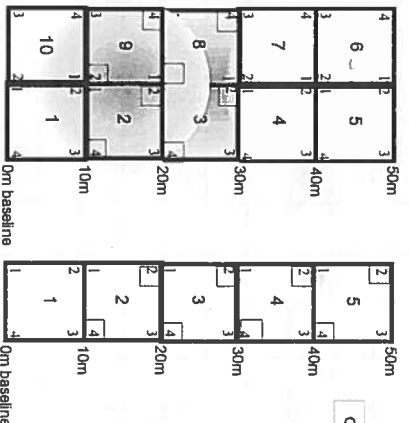
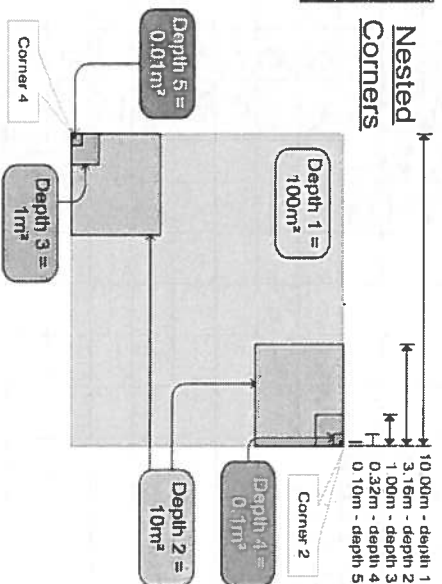
EXAMPLES OF PERCENT OF AREA COVERED

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



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

Nested Corners



BROWSE RATING NARRATIVE DESCRIPTION

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

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

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

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

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

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

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP

Project Name: 01 Br 2012

Plot No.: 1281

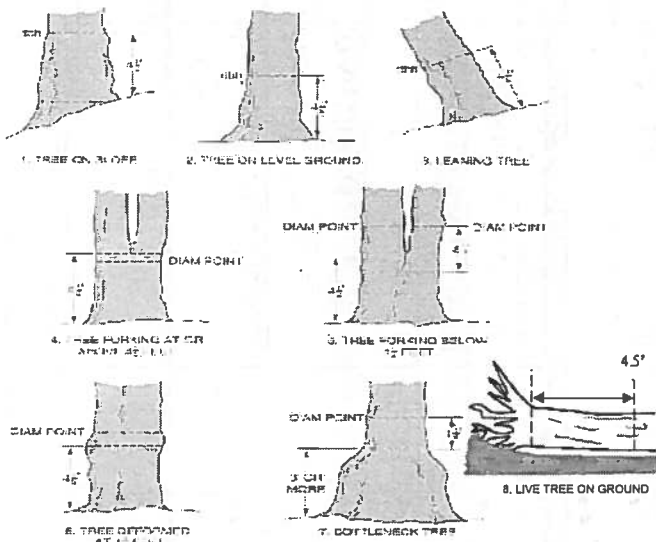
Page: 1 of 1



Explain subsample (additional room on back):

| mod # | species | c | voucher# | # stems 0-1.4m browsed | % sub or super sample | # shrub clumps | size class (cm) woody stems >1.4m | 1 0-1 | 2 1-2.5 | 3 2.5-5 | 4 5-10 | 5 10-15 | 6 15-20 | 7 20-25 | 8 25-30 | 9 30-35 | 10 35-40 | 11 >40 (record each tree) |
|-------|--|---|----------|------------------------------|-----------------------------|----------------------|-----------------------------------|----------|------------|------------|-----------|------------|------------|------------|------------|------------|-------------|------------------------------|
| 1 | Fragaria sp. | | | | | | | | | | | | | | | | | |
| 1 | Lindera tulifera | | | | | | | | | | | | | | | | | |
| 1 | Prunus frangula | | | | | | | | | | | | | | | | | |
| 1 | standing dead | | | | | | | | | | | | | | | | | |
| 1 | Rubus pennsylvanicus | | | | | | | | | | | | | | | | | |
| 1 | Acer saccharum | | | | | | | | | | | | | | | | | |
| 1 | Tilia americana | | | | | | | | | | | | | | | | | 41.2 |
| 1 | Fraxinus sp. | | | | | | | | | | | | | | | | | |
| 1 | Parthenocissus quinquefolia | | | | | | | | | | | | | | | | | |
| 1 | Vitis sp. | | | | | | | | | | | | | | | | | |
| 1 | Fraxinus sp. | | | | | | | | | | | | | | | | | |
| 1 | standing dead | | | | | | | | | | | | | | | | | 47.9 |
| 1 | Liriodendron tulipifera | | | | | | | | | | | | | | | | | |
| 1 | Parthenocissus quinquefolia | | | | | | | | | | | | | | | | | |
| 1 | Acer saccharum | | | | | | | | | | | | | | | | | |
| 1 | Carya sp. | | | | | | | | | | | | | | | | | |
| 1 | Carpinus caroliniana | | | | | | | | | | | | | | | | | |
| 1 | Fagus grandifolia | | | | | | | | | | | | | | | | | |
| 1 | Lindera benzoin | | | | | | | | | | | | | | | | | |
| 1 | Ulmus sp. | | | | | | | | | | | | | | | | | |
| 1 | Prunus frangula | | | | | | | | | | | | | | | | | |
| 1 | Parthenocissus quinquefolia | | | | | | | | | | | | | | | | | |
| 1 | Lonicera morrowii | | | | | | | | | | | | | | | | | |
| 1 | Rubus pensylvanicus | | | | | | | | | | | | | | | | | |

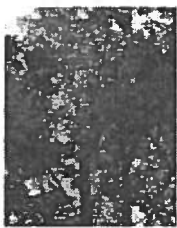
DBH Measurement Rules



Woody Stem Deer Browse

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

Record using the tally system from 1 to 10



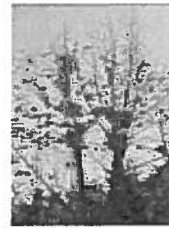
1



2



3



4



5

ASH CANOPY CONDITION

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



A

B

C

D

E

ASH CANOPY BREAKUP CONDITION (for dead trees):

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

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

CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey



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

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

Project Label: PCAP

Project Name: CIBc2012

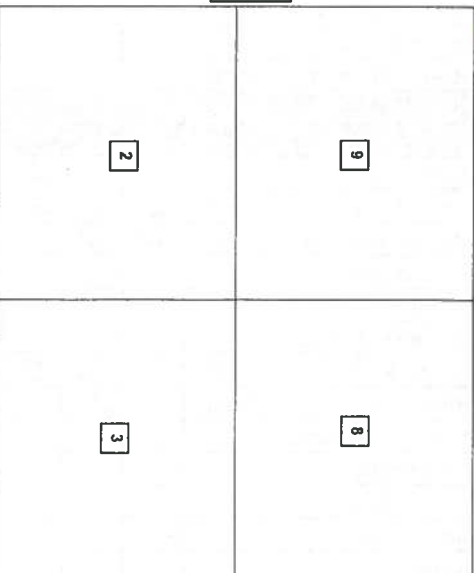
Pilot No.: 1281

Date: 8/8/12

| Tree ID | Species | Dead | Voucher # | DBH (cm) | HT @ DBH | Ash condition | Dead condition | # Exit holes | Epicormic present | Woodpecker holes |
|---------|---------|------|-----------|----------|----------|---------------|----------------|--------------|-------------------|------------------|
| 1 | No ash | | | | | | | | | |
| 2 | | | | | | | | | | |
| 3 | | | | | | | | | | |
| 4 | | | | | | | | | | |
| 5 | | | | | | | | | | |
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| 13 | | | | | | | | | | |
| 14 | | | | | | | | | | |
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| 18 | | | | | | | | | | |
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| 20 | | | | | | | | | | |
| 21 | | | | | | | | | | |
| 22 | | | | | | | | | | |
| 23 | | | | | | | | | | |
| 24 | | | | | | | | | | |
| 25 | | | | | | | | | | |

ASH ONLY

Baseline



*** Change intensive module numbers when necessary

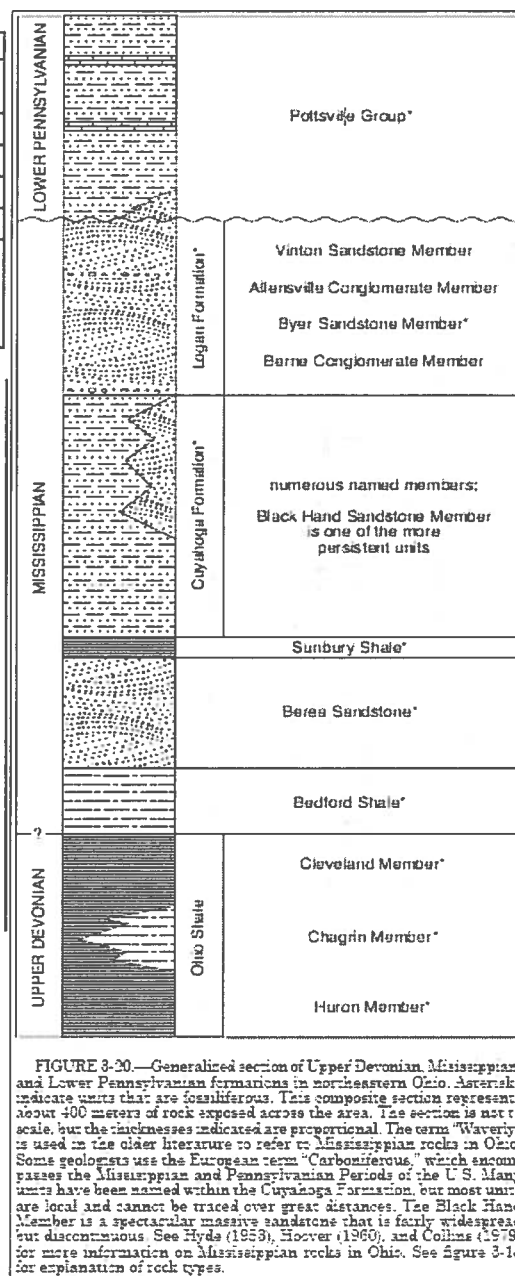
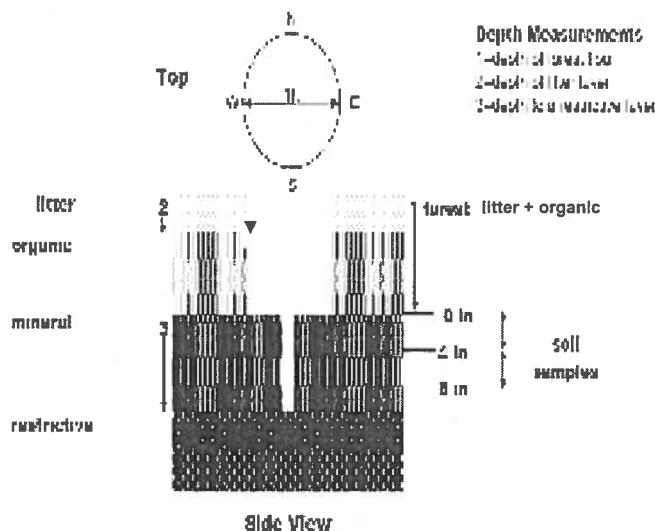
Map all ash trees ≥ 10cm in each module using Tree ID number

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

COVER BY STRATA

| STRATUM | GENERAL FORM |
|------------------------------|---|
| Tree (generally >5 m) | Tree (overstory), very tall shrubs*, liana, epiphyte) |
| Shrub (generally 0.5 to 5 m) | Tree (sapling), shrub, liana, epiphyte) |
| Herb (Field) | Herb, dwarf-shrub**, tree (seedling***) |
| Floating | Floating |
| Aquatic (submerged) | Submerged |

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



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

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 pit module # 2 (one per entire plot)

| | | |
|-------|------------------|----------|
| 5 cm | matrix color | 10YR 3/2 |
| | mottle color | N/A |
| | %mottle | 0 |
| | oxid roots | 0 N |
| | texture* | 2 |
| | redox features** | 0 N |
| | hydr cond*** | 1 S 0 D |
| 20 cm | matrix color | 10YR 3/3 |
| | mottle color | N/A |
| | %mottle | 0 |
| | oxid roots | 0 N |
| | texture* | 2 |
| | redox features** | 0 N |
| | hydro cond*** | 1 S 0 D |

* refer to texture classes on reverse side

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

*** Circle one:

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

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

Earthworms found in plot

Soil Collection Module Horizon (A, B, C)

23.89 cm posited

A

Soil Series/Type 6cF, Beeburg Marston silt loam

Landform type: Terraces

Depth to rest. Layer: > 80 inches

Parent Material loesslike deposits

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

TK 7-27-12

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

| | 1 liter+ organic depth (cm) | 2 liter depth (cm) | water depth (cm) | depth sat soil (cm) |
|---|-----------------------------|--------------------|------------------|---------------------|
| 1 | 4.8 | 4.8 | 0 | >30 |
| 2 | 8.7 | 8.7 | 0 | >30 |
| - | - | - | - | - |
| - | - | - | - | - |

EARTH SURFACE & GROUND COVER

| Underlying Earth Surface* | Ground Cover | |
|----------------------------|--------------|---------|
| (Sum = 100%) | percent | percent |
| Histosol | 0 | 13 |
| Mineral Soil | 100 | 4 |
| Gravel-Cobble* | 0 | 90 |
| Boulder** | 0 | 0 |
| Bedrock | 0 | 1 |
| * Gravel-Cobble = 1/16-10" | Water | 0 |
| ** Boulder = > 10 in | Bare Soil | 1 |
| *** >5 cm in diameter | Road/Trail | 0 |
| **** <5 cm in diameter | Other | 0 |

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

%

| Strata | Height Range (m) | Total Cover (%) |
|-------------|------------------|-----------------|
| Tree | 5-00 | 63 |
| Shrub | 0.5-5 | 43 |
| Herb | X - 0.5 | 13 |
| (Floating)* | - | - |
| (Aquatic)* | - | - |

* rooted and floating or slightly emerged

** submersed, most plant mass below surface

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

TRAIL INFORMATION:

record type and cover for each

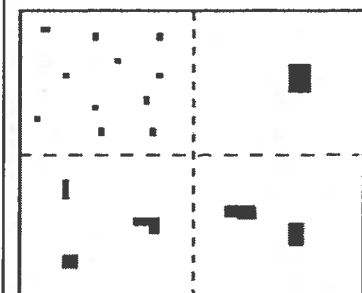
| Type | %Cover |
|--|----------|
| <input type="checkbox"/> All Purpose | |
| <input type="checkbox"/> Bridle | |
| <input type="checkbox"/> Hiking sanctioned | |
| <input type="checkbox"/> Bicycles unsanctioned | |
| <input type="checkbox"/> Gravel | No trail |
| <input type="checkbox"/> Deer | |

STAND SIZE

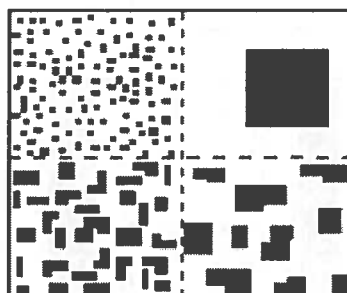
- ☐ >600 x plot size
☐ > 100 x plot size
☐ 10-100 x plot size
☐ 3-10 x plot size
☒ 1-3 x plot size
☐ < plot size

PERCENT MOTTLES (USE CLASS CODES):

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



2%



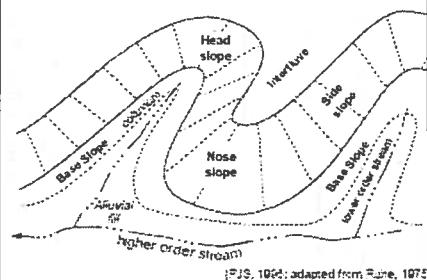
20%

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

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

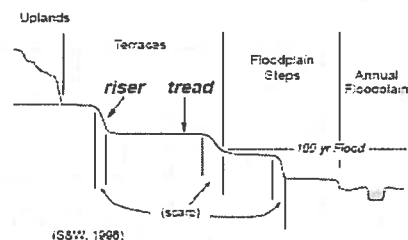
Geomorphic Component - Three-dimensional descriptors of parts of landforms or microfeatures that are best applied to areas. Unique descriptors are available for Hills, Terraces, Mountains, and Flat Plains; e.g., (for Hills) *nose slope* or *NS*.

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



(PJS, 1994; adapted from Raine, 1975)

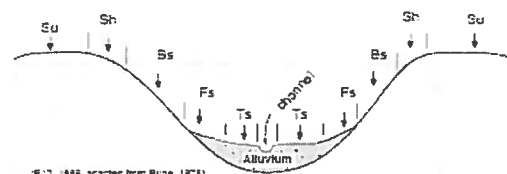
| Terraces | Code |
|----------|------|
| riser | RI |
| tread | TR |



(SSW, 1998)

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, 1994; adapted from Raine, 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/SEMI-PERMANENTLY SATURATED: Dry less than once per year. Surface water is seldom present, but substrate is saturated to surface for extended periods during the growing season. Equivalent to Cowardin's Saturated modifier.

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

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

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

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

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

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

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): _____

Site ID: PCAPbr 1281DATE: 08/08/2012

Location:

☒ AA Center
 ☐ N
 ☐ S
 ☐ E
 ☐ W

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

☐ Plot 1

 ☐ Plot 2

 ☐ Plot 3

Buffer Natural Cover Strata

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

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

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

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

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

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

Reviewed by (Initial): _____

DATE: 08/28/2012

② 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"/> | |
| | | | | | | | | | | 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.

Flag

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

Longitude West 0.81.61.37.7

Use Decimal Degrees; NAD83

[illegible]

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): _____

Site ID: PCAP hr 1281DATE: 0.8/0.8/20.1.2

Location:

☐ AA Center
 ☒ N
 ☐ S
 ☐ E
 ☐ W

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

☐ Plot 1

 ☐ Plot 2

 ☐ Plot 3

Buffer Natural Cover Strata

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

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

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

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

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

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

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

Buffer Sample Plots 05/27/2011

2428168304

Reviewed by (initial):

DATE: 08/08/2012

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

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.

Flag

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

Longitude West 081.61376

Use Decimal Degrees; NAD83

[illegible]

marrow 9.14.
by 30
= 9.14

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (initial): _____

Site ID: PLAP 61 1281DATE: 05/10/2012

Location:

☐ AA Center
 ☐ N
 ☐ S
 ☒ E
 ☐ W

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

☐ Plot 1

 ☐ Plot 2

 ☐ Plot 3

Buffer Natural Cover Strata

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

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

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

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

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

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

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

Reviewed by (initial): _____

DATE: 08/08/2012

| 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"/> | |
| | | | | | | | | | | Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |

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.

Flag

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

Longitude West 081.61238

Use Decimal Degrees; NAD83

[illegible]

1944 1945 1946
 1947 1948 1949

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (initial): _____

Site ID: PCAP6r1281DATE: 0.8/0.8/2.0.12

Location:

☐ AA Center
 ☐ N
 ☒ S
 ☐ E
 ☐ W

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

☐ Plot 1

 ☐ Plot 2

 ☐ Plot 3

Buffer Natural Cover Strata

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

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

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

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

| Residential and Urban Stressors | | | | | Hydrology Stressors | | | | | Agricultural & Rural Stressors | | | | |
|---------------------------------|---|---|---|------|--|--|---|---|------|--|---|---|---|------|
| Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag |
| Road - gravel | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Ditches, Channelization | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Pasture/Hay | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | |
| Road - two lane | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Dike/Dam/Road/RR Bed (IMPEDE FLOW) | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Range | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | |
| Road - four lane | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Water Level Control Structure | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Row Crops | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | |
| Parking Lot/Pavement | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Excavation, Dredging | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Fallow Field (RECENT-RESTING ROW CROP FIELD) | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | |
| Golf Course | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Fill/Spoil Banks | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Fallow Field (OLD - GRASS, SHRUBS, TREES) | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | |
| Lawn/Park | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Freshly Deposited Sediment (UNVEGETATED) | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Nursery | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | |
| Suburban Residential | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Soil Loss/Root Exposure | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Dairy | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | |
| Urban/Multifamily | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Wall/Riprap | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Orchard | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | |
| Landfill | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Inlets, Outlets | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Confined Animal Feeding | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | |
| Dumping | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Point Source/Pipe (EFFLUENT OR STORMWATER) | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Rural Residential | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | |
| Trash | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Impervious surface input (SHEETFLOW) | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Gravel Pit | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | |
| Other: _____ | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Other: _____ | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Irrigation | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | |
| Other: _____ | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Other: _____ | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Other: _____ | <input type="radio"/> 0 <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"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Forest Clear Cut | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Herbicide Use | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | |
| Gas Wells | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Forest Selective Cut | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Mowing/Shrub Cutting | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | |
| Mine (surface) | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Tree Plantation | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Trails | <input type="radio"/> 0 <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 | | | 1 |
| Mine (underground) | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Tree Canopy Herbivory (INSECT) | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Soil Compaction (ANIMAL OR HUMAN) | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | |
| Military | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Shrub Layer Browsed (WILD OR DOMESTIC) | <input checked="" type="radio"/> 0 <input type="radio"/> 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 | | | | Offroad vehicle damage | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | |
| Other: _____ | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Highly Grazed Grasses (OVERALL <3" HIGH) | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Soil erosion (FROM WIND, WATER, OR OVERUSE) | <input type="radio"/> 0 <input checked="" type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | |
| Other: _____ | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Recently Burned Forest Canopy | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Other: _____ | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | |
| Other: _____ | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Recently Burned Grassland (BLACKENED) | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 | | | | Other: _____ | <input type="radio"/> 0 <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

Buffer Sample Plots 05/27/2011

2428168304

Reviewed by (initial):

DATE: 08/08/2012

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

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.

Flag

Longitude West 081.61353

[illegible]

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): _____

Site ID: PCABr1281DATE: 05/08/2012

Location:

☐ AA Center
 ☐ N
 ☐ S
 ☐ E
 ☒ W

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

☐ Plot 1

 ☐ Plot 2

 ☐ Plot 3

Buffer Natural Cover Strata

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

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

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

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

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

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

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

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

2428168304

Buffer Sample Plots 05/27/2011

Reviewed by (Initial): _____

DATE: 0.81 0.81 2012

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

7966623548