

CLEVELAND METROPARKS Plant Community Assessment Program: Quality Control Form



Project Label: \_\_\_\_\_

PCAP

Plot No. 229

Date Sampled: 7-2-2012

Lead: Eysenbach

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                               |                                 | Y <input checked="" type="radio"/> N <input type="radio"/> |   |
| Site sketch made on 1:3000 map?                        |                                 | Y <input checked="" type="radio"/> N <input type="radio"/> |   |
| Check cover page                                       | X-axis Bearing of plot recorded | Y <input checked="" type="radio"/> N <input type="radio"/> |   |
|  | GPS coords. Recorded            | Y <input checked="" type="radio"/> N <input type="radio"/> |   |
|  | North direction recorded        | Y <input checked="" type="radio"/> N <input type="radio"/> |   |
|  | Photographs taken?              | Y <input checked="" type="radio"/> N <input type="radio"/> |   |
| Plot No., Date agreement on all pages?                 |                                 | Y <input checked="" type="radio"/> N <input type="radio"/> |   |
| Header data completed all pages?                       |                                 | Y <input checked="" type="radio"/> N <input type="radio"/> |   |
| Cover classes recorded in all Intensive modules        |                                 | Y <input checked="" type="radio"/> N <input type="radio"/> |   |
| Browse Level By Species                                |                                 | Y <input checked="" type="radio"/> N <input type="radio"/> |   |
| Woody stem quality control check                       |                                 | Y <input checked="" type="radio"/> N <input type="radio"/> |   |
| Invasive plant quality control check                   |                                 | Y <input checked="" type="radio"/> N <input type="radio"/> |   |
| Ash trees mapped                                       |                                 | Y <input checked="" type="radio"/> N <input type="radio"/> | N/A   |
| Cover by Strata? (confirm cover type)                  |                                 | Y <input checked="" type="radio"/> N <input type="radio"/> |   |
| Soil samples collected with matching plot #.           |                                 | Y <input checked="" type="radio"/> N <input type="radio"/> |   |
| Vouchers labeled on datasheet with initials and number |                                 | Y <input checked="" type="radio"/> N <input type="radio"/> | N/A   |
| Vouchers labeled on collection bag                     |                                 | Y <input checked="" type="radio"/> N <input type="radio"/> | N/A   |
| Pink flags removed                                     |                                 | Y <input checked="" type="radio"/> N <input type="radio"/> |   |
| Data sheet QA before leaving site?                     |                                 | Y <input checked="" type="radio"/> N <input type="radio"/> |   |
| Common equipment returned to tub.                      |                                 | Y <input checked="" type="radio"/> N <input type="radio"/> |   |
| Data sheets scanned?                                   |                                 | 7-16-12  | Enter date to left KEL                          |
| Final data sheets scanned?                             |                                 |  | Enter date to left                              |
| Buffer Widths measured?                                |                                 | X <input checked="" type="radio"/> N <input type="radio"/> | LMH 6-22-12                                     |
| Web Soil Survey  |                                 | Y <input checked="" type="radio"/> N <input type="radio"/> | KEL 7-6-12                                      |
| Voucher Location                                       | Refrigerator                    | Y <input checked="" type="radio"/> N <input type="radio"/> |   |
| (# vouchers collected)                                 | Press (#)                       |  | Enter number to left                            |
|  | Drier                           | Y <input checked="" type="radio"/> N <input type="radio"/> |   |
|  | Identified                      | Y <input checked="" type="radio"/> N <input type="radio"/> |   |
|  | Mounted                         | Y <input checked="" type="radio"/> N <input type="radio"/> |   |
|  | Thrown away                     | Y <input checked="" type="radio"/> N <input type="radio"/> |   |

|   |   |
|---|---|
| <b>GRTS point verification: Is plot sampleable?</b> |   |
| <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  |

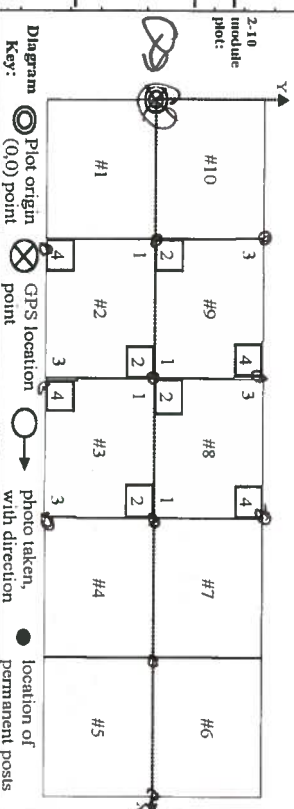
Additional Comments:

| GENERAL INFORMATION  |   |
|--|---|
| Project Label:   | PCAP  |
| Project Name:  | 01112012  |
| Plot Name:   | Mitochondrial   |
| Plot No.:  | 12294   |
| <input type="checkbox"/> Level 4 (no nested corners sampled)   |   |
| <input checked="" type="checkbox"/> Level 5 (nested corners sampled)   |   |
| Date (mm/dd/yyyy):   | 7/21/2012   |
| End date (if > 1 day):   | / /   |
| Party:   | Role**  |
| S. Fyfeback  | Plot leader   |
| B. Rucker  | Bob Asst  |
| S. Catella   | Asst  |
| T. Ristler   | Asst  |
| A. Zimmerman   | Asst  |
| ** Roles: Co-leader, Asst, Guide, Observer, Taxonomist, etc.   |   |
| PLOT NOT SAMPLED: <input type="checkbox"/> Other   |   |
| <input type="checkbox"/> Perm. water <input type="checkbox"/> Paved <input type="checkbox"/> Slope <input type="checkbox"/> Safety |   |
| SAMPLING QUALITY*  |   |
| Effort Level:  | subjective evaluation of how much effort put into sampling. Hurried plots may still provide good data |
| <input checked="" type="checkbox"/> Very thorough  |   |
| <input type="checkbox"/> Accurate  |   |
| <input type="checkbox"/> Hurried   |   |
| TAXONOMIC ACCURACY   |   |
|  | highly/modera./low/not simpl.   |
| vascul.  | ✓   |
| hyo  | ✓   |
| lichen   | ✓   |
| TAXONOMIC STANDARD   |   |
| Authority:   | G&C Pub Date: 1998  |

Minimum required fields in Bold and Underlined

| LOCATION  |   |
|---|---|
| State:  | OH County: Medina   |
| Quadrangle:   | West Richfield  |
| Local Place Names:  | Coasting Hill   |
| Landowner:  | CM  |
| Data Confidentiality:   | <input checked="" type="checkbox"/> Public data <input type="checkbox"/> Private Data                               |
| Check one:  | <input checked="" type="checkbox"/> Fuzz 100m <input type="checkbox"/> Fuzz 250m <input type="checkbox"/> Fuzz 500m |
| Reason:   |   |
| If data not public why?   |   |
| Source of coordinates:  | <input type="checkbox"/> MAP <input checked="" type="checkbox"/> GPS  |
| Coordinate system:  | <input checked="" type="checkbox"/> Coord. Units  |
| <input checked="" type="checkbox"/> Lat/Long <input type="checkbox"/> UTM <input type="checkbox"/> StatePlane               | <input type="checkbox"/> deg <input type="checkbox"/> deg min   |
| <input type="checkbox"/> Other (specify):   | <input type="checkbox"/> m <input type="checkbox"/> ft  |
| Datum:  | <input checked="" type="checkbox"/> NAD83/WGS84 <input type="checkbox"/> NAD27                                      |
| GPS location in plot x=0 to 5, y=-1.0 to 1.0:   |   |
| x = 0 y = 0 (base of plot x=0, y=0)   |   |
| Latitude:   | 41.22605  |
| Longitude:  | -81.70977   |
| Coord. Accuracy:  | m <input type="checkbox"/> ft 100ft   |
| GPS File Name:  | 12294A  |
| Plot size for cover data:   | 0.1 (hectares)  |
| X-axis Bearing of plot:   | 308°  |
| Depth: (1-5):   | 4   |
| Intensive modules:  | 2, 3, 8, 9 (EDIT IF MODIFIED)   |
| Camera No.:   | 2 CO-1756   |
| Photo Nos.:   |   |
| Plot Placement:   | <input checked="" type="checkbox"/> GRTS <input type="checkbox"/> Representative                                    |
| <input type="checkbox"/> Random <input type="checkbox"/> Stratified Random <input type="checkbox"/> Transect component      |   |
| <input type="checkbox"/> Systematic (grid) <input type="checkbox"/> Capture specific feature <input type="checkbox"/> Other |   |

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



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

Layout: 8x5

Location: Park at the coasting hill parking lot off of State Road. Walk across mowed field to woods. Plot is approx 80m into the woods

Rationale: GRTS pt.

Veg Char: canopy: Shagbark hickory, Red Oak, Red Maple

Subshrub: Sugar maple, Corylus

Herb: Very depauperate. Fraxinus

Seedlings, canopy seedlings

OVER



## Page 3 of 3

Page 12

Plot area (ha): 0.1



## Cleveland Metroparks

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

Strata - Cov. entire plot

[illegible]



# CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet



Project Label: PCAP

Project Name: OTH 2012

Plot No.: 1229

Page: 1 of 4

Explain subsample (additional room on back):

| mod # | species                 | c | voucher# | # stems<br>0-1.4m<br>browsed | % sub<br>or super<br>sample | # shrub<br>dumps | size class (cm) woody stems > 1.4m | 1<br>0-1 | 2<br>1-2.5 | 3<br>2.5-5 | 4<br>5-10 | 5<br>10-15 | 6<br>15-20 | 7<br>20-25 | 8<br>25-30 | 9<br>30-35 | 10<br>35-40 | 11<br>>40 (record each tree) |
|-------|-------------------------|---|----------|------------------------------|-----------------------------|------------------|------------------------------------|----------|------------|------------|-----------|------------|------------|------------|------------|------------|-------------|------------------------------|
| 1     | Acer rubrum             |   |          |                              |                             |                  |                                    |          |            |            |           |            |            |            |            |            |             | 41.2                         |
| 1     | Ostrya virginiana       |   |          |                              |                             |                  |                                    |          |            |            |           |            |            |            |            |            |             |                              |
| 1     | Liriodendron tulipifera |   |          |                              |                             |                  |                                    |          |            |            |           |            |            |            |            |            |             | 48.3                         |
| 1     | Standing dead           |   |          |                              |                             |                  |                                    |          |            |            |           |            |            |            |            |            |             |                              |
| 1     | Acer saccharum          |   |          |                              |                             |                  |                                    |          |            |            |           |            |            |            |            |            |             |                              |
| 1     | Carpinus caroliniana    |   |          |                              |                             |                  |                                    |          |            |            |           |            |            |            |            |            |             |                              |
| 1     | Lindera benzoin         |   |          |                              |                             |                  |                                    |          |            |            |           |            |            |            |            |            |             |                              |
| 1     | Prunus serotina         |   |          |                              |                             |                  |                                    |          |            |            |           |            |            |            |            |            |             |                              |
| 1     | Carya cordiformis       |   |          |                              |                             |                  |                                    |          |            |            |           |            |            |            |            |            |             |                              |
| 2     | Acer saccharum          |   |          |                              |                             |                  |                                    |          |            |            |           |            |            |            |            |            |             |                              |
| 2     | Magnolia acuminata      |   |          |                              |                             |                  |                                    |          |            |            |           |            |            |            |            |            |             |                              |
| 2     | Acer rubrum             |   |          |                              |                             |                  |                                    |          |            |            |           |            |            |            |            |            |             |                              |
| 2     | Liriodendron tulipifera |   |          |                              |                             |                  |                                    |          |            |            |           |            |            |            |            |            |             |                              |
| 2     | Fagus grandifolia       |   |          |                              |                             |                  |                                    |          |            |            |           |            |            |            |            |            |             |                              |
| 2     | Carya cordiformis       |   |          |                              |                             |                  |                                    |          |            |            |           |            |            |            |            |            |             |                              |
| 2     | Fraxinus pennsylvanica  |   |          |                              |                             |                  |                                    |          |            |            |           |            |            |            |            |            |             |                              |
| 3     | Acer saccharum          |   |          |                              |                             |                  |                                    |          |            |            |           |            |            |            |            |            |             |                              |
| 3     | Carya ovata             |   |          |                              |                             |                  |                                    |          |            |            |           |            |            |            |            |            |             |                              |
| 3     | Quercus rubra           |   |          |                              |                             |                  |                                    |          |            |            |           |            |            |            |            |            |             | 55.3                         |
| 3     | Standing dead           |   |          |                              |                             |                  |                                    |          |            |            |           |            |            |            |            |            |             |                              |
| 3     | Ostrya virginiana       |   |          |                              |                             |                  |                                    |          |            |            |           |            |            |            |            |            |             |                              |
| 3     | Rosa multiflora         |   |          |                              |                             |                  |                                    |          |            |            |           |            |            |            |            |            |             |                              |
| 3     | Acer rubrum             |   |          |                              |                             |                  |                                    |          |            |            |           |            |            |            |            |            |             |                              |
| 4     | Carya ovata             |   |          |                              |                             |                  |                                    |          |            |            |           |            |            |            |            |            |             | 64.2                         |

X/SRE 10-1-12

# CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP

Project Name: OIHI 1229

Plot No.: 1229

Page: 2 of 4



Explain subsample (additional room on back):

| mod # | species                               | c | voucher# | # stems<br>0-1.4m<br>browsed | % sub<br>or super<br>sample | #<br>shrub<br>clumps | size class (cm) woody stems > 1.4m |             |             |            |               |               |               |               |               |                |                              |  |  |  |
|-------|---------------------------------------|---|----------|------------------------------|-----------------------------|----------------------|------------------------------------|-------------|-------------|------------|---------------|---------------|---------------|---------------|---------------|----------------|------------------------------|--|--|--|
|       |                                       |   |          |                              |                             |                      | 1<br>0-<1                          | 2<br>1-<2.5 | 3<br>2.5-<5 | 4<br>5-<10 | 5<br>10 - <15 | 6<br>15 - <20 | 7<br>20 - <25 | 8<br>25 - <30 | 9<br>30 - <35 | 10<br>35 - <40 | 11<br>>40 (record each tree) |  |  |  |
| 4     | Acer saccharum                        |   |          | ::                           |                             | 11                   | 11                                 | 11          | 11          |            |               |               |               |               |               |                |                              |  |  |  |
| 4     | standing dead                         |   |          |                              |                             |                      |                                    |             |             |            |               |               |               |               |               |                |                              |  |  |  |
| 4     | Fraxinus <sup>pennsylvanica</sup> sp. |   |          | ::                           |                             |                      |                                    |             |             |            |               |               |               |               |               |                |                              |  |  |  |
| 4     | Rosa multiflora                       |   |          | .                            |                             |                      |                                    |             |             |            |               |               |               |               |               |                |                              |  |  |  |
| 4     | <del>Acer saccharum</del>             |   |          |                              |                             |                      |                                    |             |             |            |               |               |               |               |               |                |                              |  |  |  |
| 4     | Prunus serotina                       |   |          | .                            |                             |                      |                                    |             |             |            |               |               |               |               |               |                |                              |  |  |  |
| 4     | Carya spX                             |   |          | ::                           |                             |                      |                                    |             |             |            |               |               |               |               |               |                |                              |  |  |  |
| 4     | Crataegus sp.                         |   |          | .                            |                             |                      |                                    |             |             |            |               |               |               |               |               |                |                              |  |  |  |
| 5     | Carya ovata                           |   |          |                              |                             |                      |                                    |             |             |            |               |               |               |               |               |                |                              |  |  |  |
| 5     | Acer saccharum                        |   |          | ::                           |                             | 11                   | 11                                 | 11          | 11          |            |               |               |               |               |               |                |                              |  |  |  |
| 5     | standing dead                         |   |          |                              |                             |                      |                                    |             |             |            |               |               |               |               |               |                |                              |  |  |  |
| 5     | Carya sp.                             |   |          | X                            |                             |                      |                                    |             |             |            |               |               |               |               |               |                |                              |  |  |  |
| 5     | Fraxinus <sup>pennsylvanica</sup> sp. |   |          | ::                           |                             |                      |                                    |             |             |            |               |               |               |               |               |                |                              |  |  |  |
| 5     | Crataegus sp.                         |   |          | .                            |                             |                      |                                    |             |             |            |               |               |               |               |               |                |                              |  |  |  |
| 6     | Acer saccharum                        |   |          |                              |                             | 11                   | 11                                 | 11          | 11          |            |               |               |               |               |               |                |                              |  |  |  |
| 6     | Carya ovata                           |   |          |                              |                             |                      |                                    |             |             |            |               |               |               |               |               |                |                              |  |  |  |
| 6     | standing dead                         |   |          |                              |                             |                      |                                    |             |             |            |               |               |               |               |               |                |                              |  |  |  |
| 6     | Quercus rubra                         |   |          |                              |                             |                      |                                    |             |             |            |               |               |               |               |               |                |                              |  |  |  |
| 6     | Acer rubrum                           |   |          |                              |                             |                      |                                    |             |             |            |               |               |               |               |               |                |                              |  |  |  |
| 6     | Ostrya virginiana                     |   |          |                              |                             | .                    |                                    |             |             |            |               |               |               |               |               |                |                              |  |  |  |
| 6     | Carpinus caroliniana                  |   |          |                              |                             | .                    |                                    |             |             |            |               |               |               |               |               |                |                              |  |  |  |
| 6     | Quercus sp                            |   |          | .                            |                             |                      |                                    |             |             |            |               |               |               |               |               |                |                              |  |  |  |
| 6     | Lilia americana                       |   |          |                              |                             |                      |                                    |             |             |            |               |               |               |               |               |                |                              |  |  |  |
| 6     | Rosa multiflora                       |   |          | 14                           |                             | 11                   |                                    |             |             |            |               |               |               |               |               |                |                              |  |  |  |
|       |                                       |   |          |                              |                             |                      |                                    |             |             |            |               |               |               |               |               |                |                              |  |  |  |
|       |                                       |   |          |                              |                             |                      |                                    |             |             |            |               |               |               |               |               |                |                              |  |  |  |
|       |                                       |   |          |                              |                             |                      |                                    |             |             |            |               |               |               |               |               |                |                              |  |  |  |
|       |                                       |   |          |                              |                             |                      |                                    |             |             |            |               |               |               |               |               |                |                              |  |  |  |
|       |                                       |   |          |                              |                             |                      |                                    |             |             |            |               |               |               |               |               |                |                              |  |  |  |
|       |                                       |   |          |                              |                             |                      |                                    |             |             |            |               |               |               |               |               |                |                              |  |  |  |
|       |                                       |   |          |                              |                             |                      |                                    |             |             |            |               |               |               |               |               |                |                              |  |  |  |
|       |                                       |   |          |                              |                             |                      |                                    |             |             |            |               |               |               |               |               |                |                              |  |  |  |
|       |                                       |   |          |                              |                             |                      |                                    |             |             |            |               |               |               |               |               |                |                              |  |  |  |
|       |                                       |   |          |                              |                             |                      |                                    |             |             |            |               |               |               |               |               |                |                              |  |  |  |
|       |                                       |   |          |                              |                             |                      |                                    |             |             |            |               |               |               |               |               |                |                              |  |  |  |
|       |                                       |   |          |                              |                             |                      |                                    |             |             |            |               |               |               |               |               |                |                              |  |  |  |
|       |                                       |   |          |                              |                             |                      |                                    |             |             |            |               |               |               |               |               |                |                              |  |  |  |
|       |                                       |   |          |                              |                             |                      |                                    |             |             |            |               |               |               |               |               |                |                              |  |  |  |
|       |                                       |   |          |                              |                             |                      |                                    |             |             |            |               |               |               |               |               |                |                              |  |  |  |
|       |                                       |   |          |                              |                             |                      |                                    |             |             |            |               |               |               |               |               |                |                              |  |  |  |
|       |                                       |   |          |                              |                             |                      |                                    |             |             |            |               |               |               |               |               |                |                              |  |  |  |
|       |                                       |   |          |                              |                             |                      |                                    |             |             |            |               |               |               |               |               |                |                              |  |  |  |
|       |                                       |   |          |                              |                             |                      |                                    |             |             |            |               |               |               |               |               |                |                              |  |  |  |
|       |                                       |   |          |                              |                             |                      |                                    |             |             |            |               |               |               |               |               |                |                              |  |  |  |
|       |                                       |   |          |                              |                             |                      |                                    |             |             |            |               |               |               |               |               |                |                              |  |  |  |
|       |                                       |   |          |                              |                             |                      |                                    |             |             |            |               |               |               |               |               |                |                              |  |  |  |
|       |                                       |   |          |                              |                             |                      |                                    |             |             |            |               |               |               |               |               |                |                              |  |  |  |
|       |                                       |   |          |                              |                             |                      |                                    |             |             |            |               |               |               |               |               |                |                              |  |  |  |
|       |                                       |   |          |                              |                             |                      |                                    |             |             |            |               |               |               |               |               |                |                              |  |  |  |
|       |                                       |   |          |                              |                             |                      |                                    |             |             |            |               |               |               |               |               |                |                              |  |  |  |
|       |                                       |   |          |                              |                             |                      |                                    |             |             |            |               |               |               |               |               |                |                              |  |  |  |
|       |                                       |   |          |                              |                             |                      |                                    |             |             |            |               |               |               |               |               |                |                              |  |  |  |
|       |                                       |   |          |                              |                             |                      |                                    |             |             |            |               |               |               |               |               |                |                              |  |  |  |
|       |                                       |   |          |                              |                             |                      |                                    |             |             |            |               |               |               |               |               |                |                              |  |  |  |
|       |                                       |   |          |                              |                             |                      |                                    |             |             |            |               |               |               |               |               |                |                              |  |  |  |
|       |                                       |   |          |                              |                             |                      |                                    |             |             |            |               |               |               |               |               |                |                              |  |  |  |
|       |                                       |   |          |                              |                             |                      |                                    |             |             |            |               |               |               |               |               |                |                              |  |  |  |

2/12/18



# CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet

Project Label: PCAP

Project Name: OH 2014

Plot No.: 1229

Page: 3

of 9



Explain subsample (additional room on back):

| mod # | species                     | c | voucher# | # stems<br>0-1.4m<br>browsed | % sub<br>or super<br>sample | #<br>shrub<br>dumps | size class (cm) woody stems > 1.4m | 1<br>0-1 | 2<br>1-2.5 | 3<br>2.5-5 | 4<br>5-10 | 5<br>10-15 | 6<br>15-20 | 7<br>20-25 | 8<br>25-30 | 9<br>30-35 | 10<br>35-40 | 11<br>>40 (record each tree) |
|-------|-----------------------------|---|----------|------------------------------|-----------------------------|---------------------|------------------------------------|----------|------------|------------|-----------|------------|------------|------------|------------|------------|-------------|------------------------------|
| 6     | Parthenocissus quinquefolia |   |          | 1                            |                             |                     |                                    |          |            |            |           |            |            |            |            |            |             |                              |
| 6     | Lonicera morrowii           |   |          |                              |                             |                     |                                    |          |            |            |           |            |            |            |            |            |             |                              |
| 7     | Acer saccharum              |   |          |                              |                             |                     |                                    |          |            |            |           |            |            |            |            |            |             |                              |
| 7     | standing dead               |   |          |                              |                             |                     |                                    |          |            |            |           |            |            |            |            |            |             |                              |
| 7     | Quercus rubra               |   |          |                              |                             |                     |                                    |          |            |            |           |            |            |            |            |            |             |                              |
| 7     | Carya oxata                 |   |          |                              |                             |                     |                                    |          |            |            |           |            |            |            |            |            |             |                              |
| 7     | Rosa multiflora             |   |          |                              |                             |                     |                                    |          |            |            |           |            |            |            |            |            |             |                              |
| 7     | Acer rubrum                 |   |          |                              |                             |                     |                                    |          |            |            |           |            |            |            |            |            |             |                              |
| 7     | Quercus alba                |   |          |                              |                             |                     |                                    |          |            |            |           |            |            |            |            |            |             |                              |
| 7     | Fraxinus pennsylvanicus     |   |          |                              |                             |                     |                                    |          |            |            |           |            |            |            |            |            |             |                              |
| 8     | Vitis americana             |   |          |                              |                             |                     |                                    |          |            |            |           |            |            |            |            |            |             |                              |
| 8     | Quercus rubra               |   |          |                              |                             |                     |                                    |          |            |            |           |            |            |            |            |            |             | 60.0                         |
| 8     | Acer saccharum              |   |          |                              |                             |                     |                                    |          |            |            |           |            |            |            |            |            |             |                              |
| 8     | standing dead               |   |          |                              |                             |                     |                                    |          |            |            |           |            |            |            |            |            |             |                              |
| 8     | Carya oxata                 |   |          |                              |                             |                     |                                    |          |            |            |           |            |            |            |            |            |             |                              |
| 8     | Acer rubrum                 |   |          |                              |                             |                     |                                    |          |            |            |           |            |            |            |            |            |             |                              |
| 8     | Ostrya virginiana           |   |          |                              |                             |                     |                                    |          |            |            |           |            |            |            |            |            |             |                              |
| 8     | Liriodendron tulipifera     |   |          |                              |                             |                     |                                    |          |            |            |           |            |            |            |            |            |             |                              |
| 8     | Rosa multiflora             |   |          |                              |                             |                     |                                    |          |            |            |           |            |            |            |            |            |             |                              |
| 8     | Quercus sp                  |   |          |                              |                             |                     |                                    |          |            |            |           |            |            |            |            |            |             |                              |
| 9     | Carya ovata                 |   |          |                              |                             |                     |                                    |          |            |            |           |            |            |            |            |            |             |                              |
| 9     | Acer saccharum              |   |          |                              |                             |                     |                                    |          |            |            |           |            |            |            |            |            |             |                              |
| 9     | Ostrya virginiana           |   |          |                              |                             |                     |                                    |          |            |            |           |            |            |            |            |            |             |                              |
| 9     | Vitis americana             |   |          |                              |                             |                     |                                    |          |            |            |           |            |            |            |            |            |             |                              |

48.7, 66.9, 52.8







**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 # 3 (one per entire plot)

|       |                  |                  |
|-------|------------------|------------------|
| 6 cm  | matrix color     | <u>2.5y 3/2</u>  |
|       | mottle color     | <u>None</u>      |
|       | *mottle          | <u>None</u>      |
|       | oxid roots       | <u>Y (N)</u>     |
|       | texture*         | <u>1</u>         |
|       | redox features** | <u>Y (N)</u>     |
|       | hydr. cond.***   | <u>1 S M (N)</u> |
| 20 cm | matrix color     | <u>2.5y 5/3</u>  |
|       | mottle color     | <u>None</u>      |
|       | *mottle          | <u>None</u>      |
|       | oxid roots       | <u>Y (N)</u>     |
|       | texture*         | <u>2</u>         |
|       | redox features** | <u>Y (N)</u>     |
|       | hydro cond.***   | <u>1 S M (N)</u> |

*Extremely dry soil  
cracking at surface*

|  |                         |
|--|-------------------------|
| Soil Collection Module/Horizon (A, B, C) | A                       |
| 2.3, 8.9, composted                      |                         |
| Soil Series/Type:                        | <u>Mgb</u>              |
| Soil Series Source                       | <u>Ohio Soil Survey</u> |
| Landform type:                           | <u>Till plains</u>      |
| Depth to test layer                      | <u>&gt; 80 cm</u>       |
| Parent Material:                         | <u>Till</u>             |

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

*WSS - TEL - 7/16/2012*

| SOIL DEPTH MEASUREMENT: Measure to the nearest 0.1 cm in center of intensive modules. If >30.5 cm, record as >30 |                             |                    |                  |                     |
|--|-----------------------------|--------------------|------------------|---------------------|
| mod#   | 1 liter+ organic depth (cm) | 2 liter depth (cm) | water depth (cm) | depth sat soil (cm) |
| 2  | 3.1                         | 3.1                | 0                | 730                 |
| 3  | 2.2                         | 2.2                | 0                | 730                 |
| 8  | 2.7                         | 2.7                | 0                | 730                 |
| 9  | 2.5                         | 2.5                | 0                | 730                 |

**EARTH SURFACE & GROUND COVER**

| Underlying Earth Surface*  | Ground Cover           | percent |
|----------------------------|------------------------|---------|
| Grass = 100%               | percent                |         |
| Histiosol                  | Coarse Woody Debris*** | 5       |
| Mineral Soil               | Fine Woody Debris****  | 3       |
| Gravel-Cobble*             | Litter                 | 98      |
| Boulder**                  | Duff (Ferm + Humus)    | 0       |
| Bedrock                    | Bryophyte-Lichen       | 2       |
| * Gravel-Cobble = 1/16-10" | Water                  | 0       |
| ** Boulder = > 10 in       | Bare Soil              | 3       |
| *** > 5 cm in diameter     | Roll/Trail             | 0       |
| **** < 5 cm in diameter    | Other                  |         |

*No trails*

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

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

| Strata      | Height Range (m) | Total Cover (%) |
|-------------|------------------|-----------------|
| Tree        | > 5              | 93              |
| Shrub       | 5-5              | 58              |
| Herb        | 0-5              | 3               |
| (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.

**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

CLEVELAND METROPARKS Plant Community Assessment Program: Invasive Species Survey



| Tier 1: Early detection/ Rapid response |                             | Presence    |    |    |    | GPS         | Presence<br>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        |             |    | 1  |    |             | 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           |    |    |    |             |                    |
| Alnus glutinosa                         | European Alder              |             |    |    |    |             |                    |
| Dipsacus laciniatus                     | Cut-leaf Teasel             |             |    |    |    |             |                    |
| Elaeagnus umbellata                     | Autumn Olive (shrub)        |             |    |    |    |             |                    |
| Lonicera maackii                        | Amur Honeysuckle (shrub)    |             |    |    |    |             |                    |
| 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    | Presence<br>X: yes |
|   |                             | NE          | SE | SW | NW |             |                    |
| Alliaria petiolata                      | Garlic Mustard              |             |    | 1  |    |             |                    |
| Ligustrum vulgare                       | Common Privet (shrub)       |             | 1  |    |    | SE 10-10-12 |                    |
| L. morrowii, L. tatarica                | Bush Honeysuckles (shrub)   |             |    | 2  | 1  |             |                    |
| Phalaris arundinacea                    | Reed Canarygrass            |             |    |    |    |             |                    |
| Phragmites australis (wetland)          | Phragmites                  |             |    |    |    |             |                    |
| Polygonum cuspidatum                    | Japanese Knotweed           |             |    |    |    |             |                    |
| Frangula alnus                          | Glossy Buckthorn (shrub)    |             |    |    |    |             |                    |
| Rosa multiflora                         | Multiflora Rose (shrub)     | 3           | 5  | 5  | 3  |             |                    |
| 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)

## FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): \_\_\_\_\_

Site ID: PLAP 4: 1229DATE: 07/02/2012

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 (&lt;10%); 2 = Moderate (10-40%); 3 = Heavy (40-75%); 4 = Very Heavy (&gt;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"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> | Big Trees (>0.3m DBH)                 | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> | Big Trees (>0.3m DBH)                 | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> |
| Small Trees (<0.3m DBH)               | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> | Small Trees (<0.3m DBH)               | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> | Small Trees (<0.3m DBH)               | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> |
| Woody Shrubs, Saplings (0.5m-5m HIGH) | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> | Woody Shrubs, Saplings (0.5m-5m HIGH) | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> | Woody Shrubs, Saplings (0.5m-5m HIGH) | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> |
| Woody Shrubs, Saplings (<0.5m HIGH)   | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> | Woody Shrubs, Saplings (<0.5m HIGH)   | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> | Woody Shrubs, Saplings (<0.5m HIGH)   | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> |
| Herbs, Forbs and Grasses              | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> | Herbs, Forbs and Grasses              | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> | Herbs, Forbs and Grasses              | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> |
| Bare ground                           | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> | Bare ground                           | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> | Bare ground                           | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> |
| Litter, duff                          | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> | Litter, duff                          | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> | Litter, duff                          | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> |
| Rock                                  | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> | Rock                                  | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> | Rock                                  | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> |
| Water                                 | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> | Water                                 | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> | Water                                 | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> |
| Submerged Vegetation                  | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> | Submerged Vegetation                  | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> | Submerged Vegetation                  | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> |

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

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

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

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

Buffer Sample Plots 05/27/2011

2428168304



## FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): \_\_\_\_\_

Site ID: PCAP H1229DATE: 07/02/1990

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(&lt;10%); 2=Moderate(10-40%); 3 = Heavy (40-75%); 4 = Very Heavy (&gt;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"/>  | <input type="radio"/>         | <input type="radio"/>                                      |      | Big Trees (>0.3m DBH)                 | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      |      | Big Trees (>0.3m DBH)                 | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      |      |
| Small Trees (<0.3m DBH)               | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      |      | Small Trees (<0.3m DBH)               | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      |      | Small Trees (<0.3m DBH)               | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      |      |
| Woody Shrubs, Saplings (0.5m-5m HIGH) | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      |      | Woody Shrubs, Saplings (0.5m-5m HIGH) | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      |      | Woody Shrubs, Saplings (0.5m-5m HIGH) | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      |      |
| Woody Shrubs, Saplings (<0.5m HIGH)   | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      |      | Woody Shrubs, Saplings (<0.5m HIGH)   | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      |      | Woody Shrubs, Saplings (<0.5m HIGH)   | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      |      |
| Herbs, Forbs and Grasses              | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      |      | Herbs, Forbs and Grasses              | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      |      | Herbs, Forbs and Grasses              | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      |      |
| Bare ground                           | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      |      | Bare ground                           | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      |      | Bare ground                           | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      |      |
| Litter, duff                          | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      |      | Litter, duff                          | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      |      | Litter, duff                          | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      |      |
| Rock                                  | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      |      | Rock                                  | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      |      | Rock                                  | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      |      |
| Water                                 | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      |      | Water                                 | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      |      | Water                                 | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      |      |
| Submerged Vegetation                  | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      |      | Submerged Vegetation                  | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      |      | Submerged Vegetation                  | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      |      |

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

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

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

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

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

Buffer Sample Plots 05/27/2011

2428168304

## FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (initial): \_\_\_\_\_

Site ID: PCAPH 1229DATE: 07 / 02 / 1990

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(&lt;10%); 2=Moderate(10-40%); 3 = Heavy (40-75%); 4 = Very Heavy (&gt;75%)

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

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

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

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

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

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

2428168304

Buffer Sample Plots 05/27/2011

## FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): \_\_\_\_\_

Site ID: PCAP Hi 1229DATE: 07/02/2012

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(&lt;10%); 2 = Moderate(10-40%); 3 = Heavy (40-75%); 4 = Very Heavy (&gt;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"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> | Big Trees (>0.3m DBH)                 | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> | Big Trees (>0.3m DBH)                 | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> |
| Small Trees (<0.3m DBH)               | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> | Small Trees (<0.3m DBH)               | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> | Small Trees (<0.3m DBH)               | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> |
| Woody Shrubs, Saplings (0.5m-5m HIGH) | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> | Woody Shrubs, Saplings (0.5m-5m HIGH) | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> | Woody Shrubs, Saplings (0.5m-5m HIGH) | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> |
| Woody Shrubs, Saplings (<0.5m HIGH)   | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> | Woody Shrubs, Saplings (<0.5m HIGH)   | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> | Woody Shrubs, Saplings (<0.5m HIGH)   | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> |
| Herbs, Forbs and Grasses              | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> | Herbs, Forbs and Grasses              | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> | Herbs, Forbs and Grasses              | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> |
| Bare ground                           | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> | Bare ground                           | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> | Bare ground                           | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> |
| Litter, duff                          | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> | Litter, duff                          | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> | Litter, duff                          | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> |
| Rock                                  | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> | Rock                                  | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> | Rock                                  | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> |
| Water                                 | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> | Water                                 | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> | Water                                 | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> |
| Submerged Vegetation                  | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> | Submerged Vegetation                  | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> | Submerged Vegetation                  | <input type="radio"/>  | <input type="radio"/>         | <input type="radio"/>                                      | <input type="radio"/> |

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

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

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

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

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

Buffer Sample Plots 05/27/2011

2428168304



## FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (initial): \_\_\_\_\_

Site ID: PCAP H 1229DATE: 07/22/2012

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 (&lt;10%); 2 = Moderate (10-40%); 3 = Heavy (40-75%); 4 = Very Heavy (&gt;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 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 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 type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/>         | <input type="radio"/>                                      |      |
| Small Trees (<0.3m DBH)               | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/>         | <input type="radio"/>                                      |      | Small Trees (<0.3m DBH)               | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/>         | <input type="radio"/>                                      |      | Small Trees (<0.3m DBH)               | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/>         | <input type="radio"/>                                      |      |
| Woody Shrubs, Saplings (0.5m-5m HIGH) | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input 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 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 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 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 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 type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/>         | <input type="radio"/>                                      |      |
| Herbs, Forbs and Grasses              | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/>         | <input type="radio"/>                                      |      | Herbs, Forbs and Grasses              | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/>         | <input type="radio"/>                                      |      | Herbs, Forbs and Grasses              | <input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 | <input type="radio"/>         | <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"/>         | <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"/>         | <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"/>         | <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"/>         | <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"/>         | <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"/>         | <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"/>         | <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"/>         | <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"/>         | <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"/>         | <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"/>         | <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"/>         | <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"/>         | <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"/>         | <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"/>         | <input type="radio"/>                                      |      |

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

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

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

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

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

Buffer Sample Plots 05/27/2011

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