

CLEVELAND METROPARKS Plant Community Assessment Program: Quality Control Form



Project Label:

PCAP

Plot No:

1259

Date Sampled:

7-24-12

Lead:

Eysenbergh

Comment required if item answer is NO

| | | |
|--|--|--|
| Parking/Access outside of Park Boundaries: | Y <input checked="" type="radio"/> N <input type="radio"/> | If yes, write details in Comments section below |
| Field journals completed | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Site sketch made on 1:3000 map? | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Check cover page | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| X-axis Bearing of plot recorded | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| GPS coords. Recorded | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| North direction recorded | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Photographs taken? | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Plot No., Date agreement on all pages? | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Header data completed all pages? | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Cover classes recorded in all Intensive modules | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Browse Level By Species | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Woody stem quality control check | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Invasive plant quality control check | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Ash trees mapped | <input checked="" type="radio"/> Y <input type="radio"/> N | N/A |
| Cover by Strata? (confirm cover type) | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Soil samples collected with matching plot #. | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Vouchers labeled on datasheet with initials and number | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Vouchers labeled on collection bag | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Pink flags removed | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Data sheet QA before leaving site? | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Common equipment returned to tub. | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| Data sheets scanned? | 7/25/12 | Enter date to left NZ |
| Final data sheets scanned? | | Enter date to left |
| Buffer Widths measured? | <input checked="" type="radio"/> Y <input type="radio"/> N | NZ 6-29-12 |
| Web Soil Survey | <input checked="" type="radio"/> Y <input type="radio"/> N | TK 7-27-12 |
| Voucher Location | Refrigerator | <input checked="" type="radio"/> Y <input type="radio"/> N |
| (# vouchers collected) | Press (#) | Enter number to left |
| | Drier | <input checked="" type="radio"/> Y <input type="radio"/> N |
| | Identified | <input checked="" type="radio"/> Y <input type="radio"/> N |
| | Mounted | <input checked="" type="radio"/> Y <input type="radio"/> N |
| | Thrown away | <input checked="" type="radio"/> Y <input type="radio"/> N |

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

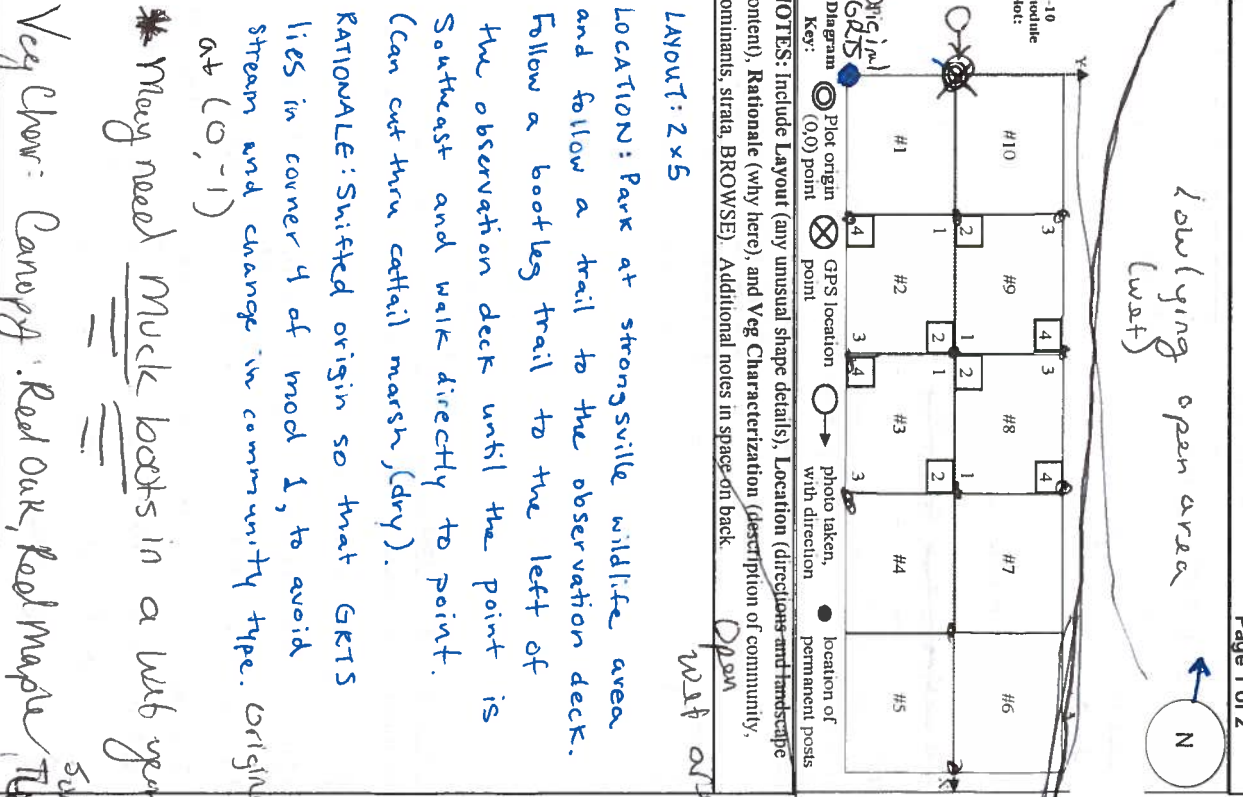
Additional Comments:

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

CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet

| GENERAL INFORMATION | | | | | | | | | | | | | | | | | | | | | |
|--|-------------------------------------|---------|-------------------------------------|-------------------------------------|-----|-----------|---------|-------------------------------------|--|--|-----|------|--|--|-------------------------------------|--|--------|--|--|--|-------------------------------------|
| Project Label: | PCAP | | | | | | | | | | | | | | | | | | | | |
| Project Name: | OLMS2012 | | | | | | | | | | | | | | | | | | | | |
| Plot Name: | In between | | | | | | | | | | | | | | | | | | | | |
| Plot No.: | 1254 | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Level 4 (no nested corners sampled) <input checked="" type="checkbox"/> Level 5 (nested corners sampled) | | | | | | | | | | | | | | | | | | | | | |
| Date (mm/dd/yyyy): | 7/24/2012 | | | | | | | | | | | | | | | | | | | | |
| End date (if > 1 day): | 1/1 | | | | | | | | | | | | | | | | | | | | |
| Party: | Role** | | | | | | | | | | | | | | | | | | | | |
| S. Eisenbach | Plot leader | | | | | | | | | | | | | | | | | | | | |
| M. Keith | Assst | | | | | | | | | | | | | | | | | | | | |
| A. Young | Assst | | | | | | | | | | | | | | | | | | | | |
| Plot NOT Sampled: <input type="checkbox"/> Other <input type="checkbox"/> Perm. water <input type="checkbox"/> Paved <input type="checkbox"/> Slope <input type="checkbox"/> Safety | | | | | | | | | | | | | | | | | | | | | |
| SAMPLING QUALITY* Effort Level: <input checked="" type="checkbox"/> Very thorough <input type="checkbox"/> Accurate <input type="checkbox"/> Hurried | | | | | | | | | | | | | | | | | | | | | |
| TAXONOMIC ACCURACY <table border="1"> <tr> <td></td> <td>high</td> <td>modera.</td> <td>low</td> <td>not simpl</td> </tr> <tr> <td>vascul.</td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td>n/a</td> </tr> <tr> <td>brvo</td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> <td></td> </tr> <tr> <td>lichen</td> <td></td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> </tr> </table> | | | high | modera. | low | not simpl | vascul. | <input checked="" type="checkbox"/> | | | n/a | brvo | | | <input checked="" type="checkbox"/> | | lichen | | | | <input checked="" type="checkbox"/> |
| | high | modera. | low | not simpl | | | | | | | | | | | | | | | | | |
| vascul. | <input checked="" type="checkbox"/> | | | n/a | | | | | | | | | | | | | | | | | |
| brvo | | | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | |
| lichen | | | | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | |
| TAXONOMIC STANDARD Authority: G&C Pub Date: 1998 | | | | | | | | | | | | | | | | | | | | | |

| LOCATION | |
|--|---------------------|
| State: | OH County: Cuyahoga |
| Quadrangle: | Berea |
| Local Place Names: Strongsville wildlife area | |
| Landowner: | CM |
| Data Confidentiality: Check one: <input checked="" type="checkbox"/> Public data <input type="checkbox"/> Private Data <input type="checkbox"/> Fuzz 100m <input type="checkbox"/> Fuzz 250m <input type="checkbox"/> Fuzz 500m | |
| Reason: If data not public why? | |
| Source of coordinates: <input type="checkbox"/> MAP <input checked="" type="checkbox"/> GPS Coordinate system: <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) | |
| Datum: <input checked="" type="checkbox"/> NAD83/WGS84 <input type="checkbox"/> NAD27 | |
| GPS location in plot x=0 to 5, y=-1.0, +1): x = 0 y = 0 (base of plot x=0, y=0) | |
| Latitude: N 41.31599 Longitude: W 81.80927 | |
| Coord. Accuracy: <input checked="" type="checkbox"/> m <input type="checkbox"/> ft + - 0 | |
| GPS File Name: 1254 A | |
| Plot size for cover data: 0.1 (hectares) | |
| X-axis Bearing of plot: [170]° | |
| Depth (1-5): 4 | |
| Intensive modules: 2, 3, 8, 9 (EDIT IF MODIFIED) | |
| Camera No.: 2 C2-1985 | |
| Photo Nos.: | |
| Plot placement: <input checked="" type="checkbox"/> RRTS <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 | |



Minimum required fields in Bold and Underlined

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

OVER

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

Page 1 of 3

Project Label: _____

PCAP

Project name: OLMS2012

Plot no.: 1564

Total modules: 10

Intensive modules: 4 Plot configuration: 2x5


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

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---------------------------------|-----|---|----|--------------------------------|---|-----------|--|--------|-------|-------------------------|-------|--------|----------------------------|--------|-------|------------------------------|-------|--------|-------|--------|
|  | | Cleveland Metroparks | | Br = Browse Level. Use cover classes to describe amount of browse per species over entire plot | | | | | | | | | | | | | | | | | | |
| Strata - Cov. entire plot | | | | | | | | | | | | | | | | | | | | | | |
| T | S | H | (F) | (A) | Br | Species | C | Voucher # | Estimate for each intensive module: | | | | | | | | | | | | | |
| | | | | | | | | | %open water | | | %unvegetated open water | | | %unveg. ground (bare soil) | | | %unveg. litter (bare litter) | | | | |
| | | | | | | | | | mod | corner | mod | corner | mod | corner | mod | corner | mod | corner | mod | corner | mod | corner |
| | | | | | | | | | depth | cov | depth | cov | depth | cov | depth | cov | depth | cov | depth | cov | depth | cov |
| 3 | 1 | | | | | <i>Fragus scandifolia</i> | | | 4 | 4 | 2 | 2 | 3 | 4 | 3 | 2 | 3 | 4 | 8 | 4 | 8 | 2 |
| 7 | 5 | | | | | <i>Acer rubrum</i> | | | 4 | 7 | 4 | | | 2 | 7 | 4 | | 4 | 7 | 4 | 2 | 7 |
| 1 | | | | | | <i>Carex gracilema</i> | | | 3 | 1 | | | | | | | | | | | | |
| 5 | 2 | | | | | <i>Prunus serotina</i> | | | 3 | 4 | 2 | | | 2 | 2 | 3 | | 4 | 2 | | 3 | 2 |
| 2 | | | | | | <i>Maianthemum canadense</i> | | | 3 | 3 | 4 | | | 2 | 2 | 2 | | | | 3 | 2 | 2 |
| 6 | 4 | 2 | | | | <i>Myrica sylvatica</i> | | | 3 | 7 | 2 | | | 4 | 6 | 2 | | 4 | 5 | | 2 | 6 |
| 2 | | | | | | <i>Toxicodendron radicans</i> | | | 2 | 1 | | | | 1 | | | | | | | | |
| 1 | | | | | | <i>Urtica dioica</i> | | | 2 | 1 | | | | 1 | 3 | | | | | | | |
| 2 | | | | | | <i>Moss sp.</i> | | | 2 | 2 | | | | 2 | | | | 1 | 2 | | 1 | 2 |
| 2 | | | | | | <i>Cornus florida</i> | | | 2 | 3 | | | | 2 | | | | | | | | |
| | | | | | | <i>Carex sp. (unsp.)</i> | | | 2 | 2 | | | | 2 | | | | | | | | |
| 2 | | | | | | <i>Viburnum dentatum</i> | | | 1 | 2 | | | | 3 | 2 | 2 | | 2 | 2 | | 2 | 2 |
| 2 | | | | | | <i>Amelanchier sp.</i> | | | 1 | 2 | | | | 2 | 2 | | | | | 2 | 1 | 2 |
| 1 | | | | | | <i>Acer sp. (seedlings)</i> | | | | | 2 | 2 | | | | | | | | | | |
| 1 | | | | | | <i>Quercus sp. (seedlings)</i> | | | 1 | 1 | | | | 1 | | | | | | | | |
| 1 | | | | | | <i>Vitis sp. (seedlings)</i> | | | 1 | 1 | | | | | | | | | | | | |
| 2 | | | | | | <i>Sassafras albidum</i> | | | 1 | 2 | | | | 2 | 2 | 2 | | 1 | 2 | | | |
| 2 | | | | | | <i>Prunella sp.</i> | | | | | 3 | 2 | 1 | 2 | | | | | | 2 | 2 | 3 |
| 1 | | | | | | <i>Polygonatum pubescens</i> | | | 1 | 1 | | | | 4 | 7 | 8 | 3 | 4 | 9 | 4 | | 4 |
| 8 | | | | | | <i>Quercus rubra</i> | | | | | 4 | 7 | 7 | 8 | 3 | | | 4 | 9 | 4 | | 4 |
| 2 | | | | | | <i>Rhamnus frangula</i> | | | 1 | 1 | | | | 3 | 2 | | | 2 | 2 | | 2 | 2 |
| 2 | | | | | | <i>Carex Swanii</i> | | | 2 | 2 | | | | 2 | 2 | | | 2 | 2 | | 2 | 2 |
| 2 | | | | | | <i>Smilax rotundifolia</i> | | | | | | | | 1 | 2 | | | | | 1 | 1 | |
| 4 | | | | | | <i>Quercus velutina</i> | | | 2 | 2 | | | | | | | | | | | | |
| 4 | | | | | | <i>Vitis (Parla)</i> | | | 2 | 2 | | | | 2 | 3 | | | | | | | |

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet



Project Label: PCAP

Project Name: Q1M52012

Plot No.: 1259

Page: 1

of

3

Explain subsample (additional room on back):

| mod # | species | c | voucher# | # stems 0-1.4m browsed | % sub or super sample | # shrub clumps | size class (cm) woody stems > 1.4m | | | | | | | | | | | | | 11 >40 (record each tree) |
|-------|---|---|----------|------------------------------|-----------------------------|----------------------|------------------------------------|------------|------------|-----------|------------|------------|------------|------------|------------|-------------|--|--|--|------------------------------|
| | | | | | | | 1 0-1 | 2 1-2.5 | 3 2.5-5 | 4 5-10 | 5 10-15 | 6 15-20 | 7 20-25 | 8 25-30 | 9 30-35 | 10 35-40 | | | | |
| 1 | Quercus rubra | | | | | | | | | | | | | | | | | | | 61.2 |
| 1 | Acer rubrum | | | | | | | | | | | | | | | | | | | 42.4 |
| 1 | Nyssa sylvatica | | | | | | | | | | | | | | | | | | | |
| 1 | Standing dead | | | | | | | | | | | | | | | | | | | |
| 2 | Acer rubrum | | | | | | | | | | | | | | | | | | | |
| 2 | Redus serotina | | | | | | | | | | | | | | | | | | | |
| 2 | Nyssa sylvatica | | | | | | | | | | | | | | | | | | | |
| 2 | Quercus rubra | | | | | | | | | | | | | | | | | | | 61.1 |
| 2 | Standing dead | | | | | | | | | | | | | | | | | | | |
| 2 | Fraxinus americana | | | | | | | | | | | | | | | | | | | |
| 2 | Cornus florida | | | | | | | | | | | | | | | | | | | |
| 2 | Urtica dioica | | | | | | | | | | | | | | | | | | | |
| 3 | Acer rubrum | | | | | | | | | | | | | | | | | | | |
| 3 | Quercus rubra | | | | | | | | | | | | | | | | | | | 42.3, 53.0 |
| 3 | Nyssa sylvatica | | | | | | | | | | | | | | | | | | | |
| 3 | Urtica dioica | | | | | | | | | | | | | | | | | | | |
| 3 | Standing dead Sassafras nitidum Acer rubrum | | | | | | | | | | | | | | | | | | | |
| 4 | Acer rubrum | | | | | | | | | | | | | | | | | | | |
| 4 | Quercus rubra | | | | | | | | | | | | | | | | | | | |
| 4 | Nyssa sylvatica | | | | | | | | | | | | | | | | | | | |
| 4 | Standing dead | | | | | | | | | | | | | | | | | | | |
| 4 | Acer saccharum | | | | | | | | | | | | | | | | | | | |
| 4 | Quercus velutina | | | | | | | | | | | | | | | | | | | 47.4 |

 University of Illinois

W

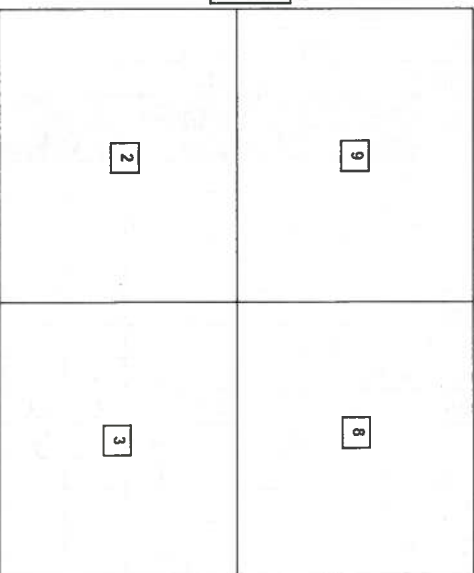
Natural Resources Management FORM NR/2010-03a

| Module ID | Tree ID | Species | Dead | c | Voucher # | DBH (cm) | HT @ DBH | Ash condition | *Dead condition | # Exit holes | Epiloric present | Woodpecker holes |
|-----------|---------|---------|------|---|-----------|----------|----------|---------------|-----------------|--------------|------------------|------------------|
| | 1 | No | | | | | | | | | | |
| | 2 | Ash | | | | | | | | | | |
| | 3 | | | | | | | | | | | |
| | 4 | | | | | | | | | | | |
| | 5 | | | | | | | | | | | |
| | 6 | | | | | | | | | | | |
| | 7 | | | | | | | | | | | |
| | 8 | | | | | | | | | | | |
| | 9 | | | | | | | | | | | |
| | 10 | | | | | | | | | | | |
| | 11 | | | | | | | | | | | |
| | 12 | | | | | | | | | | | |
| | 13 | | | | | | | | | | | |
| | 14 | | | | | | | | | | | |
| | 15 | | | | | | | | | | | |
| | 16 | | | | | | | | | | | |
| | 17 | | | | | | | | | | | |
| | 18 | | | | | | | | | | | |
| | 19 | | | | | | | | | | | |
| | 20 | | | | | | | | | | | |
| | 21 | | | | | | | | | | | |
| | 22 | | | | | | | | | | | |
| | 23 | | | | | | | | | | | |
| | 24 | | | | | | | | | | | |
| | 25 | | | | | | | | | | | |

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

Baseline

*** Change intensive module numbers when necessary



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

STANDING BIOMASS (required for emergent wetlands) collected in 1 m clip plots (2x3x2 cm) from corners 1 and 3 in each intensive module. Required for VIBI-E score calculation. C²=check when collected

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

CLASSIFICATION

FTT = excellent, F Fil and Confidence

Hydrogeomorphic class (WETLANDS ONLY):

| | | |
|---|------|-------|
| <input type="checkbox"/> DEPRESSION | Fit= | Conf= |
| <input type="checkbox"/> IMPOUNDMENT <input type="checkbox"/> Beaver <input type="checkbox"/> Human | Fit= | Conf= |
| <input type="checkbox"/> RIVERINE <input type="checkbox"/> Headwater <input type="checkbox"/> Mainstem <input type="checkbox"/> Channel | Fit= | Conf= |
| <input type="checkbox"/> SLOPE (ground water hydrology or on a physical slope) | Fit= | Conf= |
| <input type="checkbox"/> FRINGING <input type="checkbox"/> Reservoir <input type="checkbox"/> Natural Lake | Fit= | Conf= |
| <input type="checkbox"/> COASTAL (specify subclass) | Fit= | Conf= |
| <input type="checkbox"/> BOG (strongly, moderately, weakly, ombrotrophic) | Fit= | Conf= |

Ohio EPA VIBI Plant Community Class (WETLANDS ONLY):

| | | |
|---|------|-------|
| <input type="checkbox"/> FOREST <input type="checkbox"/> swamp forest <input type="checkbox"/> bog forest <input type="checkbox"/> forest seep | Fit= | Conf= |
| <input type="checkbox"/> EMERGENT <input type="checkbox"/> marsh <input type="checkbox"/> wet meadow <input type="checkbox"/> open bog | Fit= | Conf= |
| <input type="checkbox"/> SHRUB <input type="checkbox"/> shrub swamp <input type="checkbox"/> tall sh. bog <input type="checkbox"/> tall sh. fen | Fit= | Conf= |

MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only

Ranks for microhabitat features. Select one or select two and average the score. NOTE: If mod falls on a slope automatically gets ranked based on steepness (1-3) to begin + any features present

Slope 1 = slight elevational grade across module (hill)

Slope 2 = falls on slope -20°

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

- 0 feature is absent or functionally absent from the wetland
3 feature is present in the wetland in very small amounts or if more common, or low quality
7 feature is present in moderate amounts, but not of highest quality, or in small amounts of highest quality
10 feature is present in moderate or greater amounts and of highest quality

C.W.D. - count for pieces with minimum 1m length

| mod# | corner | tussocks | | hummocks | | no macro | | (2-12 cm) | | (12-40cm) | | >40 cm | | microhab. | | microhab. | |
|------|--------|----------|---------|----------|---------|----------|---------|-----------|---------|-----------|---------|---------|---------|-----------|---------|-----------|---------|
| | | depth 3 | depth 2 | depth 1 | depth 1 | depth 1 | depth 1 | depth 1 | depth 1 | depth 1 | depth 1 | depth 1 | depth 1 | depth 1 | depth 1 | depth 1 | depth 1 |
| 2 | | 0 | 0 | 1 | 1 | 26 | 1 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 |
| 3 | | 0 | 0 | 1 | 1 | 15 | 2 | 0 | 2 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 |
| 8 | | 0 | 0 | 0 | 0 | 22 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9 | | 0 | 0 | 2 | 2 | 19 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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

McNAB INDICES (degrees) + for up - for down

(FILLED OUT USING GIS PROGRAM - DO NOT FILL OUT IN FIELD)

| Aspect | N | NE | E | SE | S | SW | W | NW |
|--------------|---|----|---|----|---|----|---|----|
| +45 degrees | | | | | | | | |
| +90 degrees | | | | | | | | |
| +135 degrees | | | | | | | | |
| +180 degrees | | | | | | | | |
| +225 degrees | | | | | | | | |
| +270 degrees | | | | | | | | |
| +315 degrees | | | | | | | | |

* Landform Index (position within landscape)

** Terrain Shape Index (slope microtopographic shape)

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

| Module | N | S | E | W |
|--------|---|---|---|---|
| 2 | 7 | 3 | 4 | 6 |
| 3 | 5 | 4 | 4 | 4 |
| 8 | 3 | 3 | 4 | 2 |
| 9 | 7 | 7 | 6 | 5 |

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)

| | | |
|-------|------------------|---|
| 5 cm | matrix color | 10YR 3/4 |
| | mottle color | N/A |
| | %mottle | N/A |
| | oxid roots | Y <input checked="" type="checkbox"/> |
| | texture* | Z <input checked="" type="checkbox"/> |
| | redox features** | Y <input checked="" type="checkbox"/> |
| | hydr. cond.*** | I S M <input checked="" type="checkbox"/> |
| 20 cm | matrix color | 10YR 5/4 |
| | mottle color | N/A |
| | %mottle | N/A |
| | oxid roots | Y <input checked="" type="checkbox"/> |
| | texture* | Z <input checked="" type="checkbox"/> |
| | redox features** | Y <input checked="" type="checkbox"/> |
| | hydr. cond.*** | I S M <input checked="" type="checkbox"/> |

* refer to texture classes on reverse side
** e.g. hydrogen sulfide odor, gleying, etc.
*** Circle one:
I=undrained S=saturated M=moist D=dry
Notes: include evidence of earthworms (worms, castings, middens)

No evidence of earthworms

| | |
|------------------------|-------------------|
| Soil Collection Module | Horizon (A, B, C) |
| 2,3,4,9 | compacted |

Soil Series/Type Eug. Euclid silt

Soil Series Source: Ohio Soil Survey

Landform type: Stream terraces

Depth to root layer: 780 inches

Parent Material diolite lacustrine deposits

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

TK Z-27-12

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

| | 1 liter+ organic depth (cm) | 2 liter depth (cm) | water depth (cm) | depth sat soil (cm) |
|------|-----------------------------|--------------------|------------------|---------------------|
| mod# | | | | |
| 2 | 2.5 | 2.3 | 0 | 730 |
| 3 | 2.9 | 1.9 | 0 | 730 |
| 8 | 2.0 | 2.8 | 0 | 730 |
| 9 | 2.3 | 2.1 | 0 | 730 |

2cm Duff layer sand throughout plot

EARTH SURFACE & GROUND COVER

| Underlying Earth Surface* | Ground Cover | percent |
|----------------------------|------------------------|---------|
| (Sum = 100%) | (Each ≤ 100%) | |
| Histosol | Coarse Woody Debris*** | 8 |
| Mineral Soil | Fine Woody Debris**** | 3 |
| Gravel/Cobble* | Litter | 98 |
| Boulder** | Duff (Ferm + Humus) | 100 |
| Bedrock | Bryophyte-Lichen | 1 |
| * Gravel/Cobble = 1/16-10" | Water | 0 |
| ** Boulder = > 10 in | Bare Soil | 3 |
| *** > 5 cm in diameter | Road/Trail | 0 |
| **** < 5 cm in diameter | Other | 0 |

COVER BY STRATA

estimate using midpoints of 5, ex: 3, 8, 13

| Strata | Height Range (m) | Total Cover (%) |
|-------------|------------------|-----------------|
| Tree | 7-5 | 93 |
| Shrub | 0.5-5 | 33 |
| Herb | < 0.5 | 18 13 |
| (Floating)* | 1 | 1 |
| (Aquatic)* | 1 | 1 |

* rooted and floating or slightly emerged
** submersed, most plant mass below surface

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

TRAIL INFORMATION:

| record type and cover for each | Type | %Cover |
|--------------------------------|---------------------|--------|
| | All Purpose | |
| | Bridle | |
| | Hiking sanctioned | |
| | Hiking unsanctioned | |
| | Gravel | |
| | Deer | |

No Trail

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

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): _____

Site ID: PCAPMS 1259DATE: 07/24/2012

Location:

☒ AA Center
 ☐ N
 ☐ S
 ☐ E
 ☐ W

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

☐ Plot 1

 ☐ Plot 2

 ☐ Plot 3

Buffer Natural Cover Strata

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

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

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

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

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

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

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

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

Buffer Sample Plots 05/27/2011

2428168304

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): _____

Site ID: PCAP MS 7259DATE: 07/24/2013

Location:

☐ AA Center
 ☒ N
 ☐ S
 ☐ E
 ☐ W

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

☐ Plot 1

 ☐ Plot 2

 ☐ Plot 3

Buffer Natural Cover Strata

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

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

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

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

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

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

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

2428168304

Buffer Sample Plots 05/27/2011

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): _____

Site ID: PCOP Ins 1259DATE: 07 / 24 / 2012

Location:

☐ AA Center ☐ N ☐ S ☒ E ☐ W

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

☐ Plot 1 ☐ Plot 2 ☐ Plot 3

Buffer Natural Cover Strata

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

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

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

2428168304

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): _____

Site ID: PCAP MS 1259DATE: 07/24/2012

Location:

☐ AA Center
 ☐ N
 ☒ S
 ☐ E
 ☐ W

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

☐ Plot 1

 ☐ Plot 2

 ☐ Plot 3

Buffer Natural Cover Strata

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

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

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

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

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

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

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

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

Buffer Sample Plots 05/27/2011

2428168304

FORM B-1: BUFFER SAMPLE PLOTS (Front)

Reviewed by (Initial): _____

Site ID: PCAPMS 1259DATE: 07/24/2012

Location:

☐ AA Center
 ☐ N
 ☐ S
 ☒ E
 ☐ W

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

☐ Plot 1

 ☐ Plot 2

 ☐ Plot 3

Buffer Natural Cover Strata

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

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

| Buffer Plot 1 | Canopy Type: <input checked="" type="radio"/> D <input type="radio"/> E | Absent: <input type="radio"/> | Leaf Type: <input checked="" type="radio"/> B <input type="radio"/> N | Flag | Buffer Plot 2 | Canopy Type: <input type="radio"/> D <input type="radio"/> E | Absent: <input checked="" type="radio"/> | Leaf Type: <input type="radio"/> B <input type="radio"/> N | Flag | Buffer Plot 3 | Canopy Type: <input checked="" type="radio"/> D <input type="radio"/> E | Absent: <input type="radio"/> | Leaf Type: <input checked="" type="radio"/> B <input type="radio"/> N | Flag |
|---------------------------------------|---|-------------------------------|---|------|---------------------------------------|--|--|--|------|---------------------------------------|---|-------------------------------|---|------|
| Big Trees (>0.3m DBH) | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Big Trees (>0.3m DBH) | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Big Trees (>0.3m DBH) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Small Trees (<0.3m DBH) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Small Trees (<0.3m DBH) | <input checked="" 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 checked="" 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 checked="" 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 checked="" 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 checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Rock | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Rock | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Water | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Water | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Water | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Submerged Vegetation | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Submerged Vegetation | <input checked="" 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"/> | | Wail/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 checked="" type="radio"/> | <input type="radio"/> | 2 |
| 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 checked="" type="radio"/> | <input type="radio"/> | |
| Military | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Shrub Layer Browsed (WILD OR DOMESTIC) | <input checked="" type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | | Offroad vehicle damage | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Highly Grazed Grasses (OVERALL <3' HIGH) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Soil erosion (FROM WIND, WATER, OR OVERUSE) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Recently Burned Forest Canopy | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |
| Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Recently Burned Grassland (BLACKENED) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | | Other: _____ | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | |

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

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

Buffer Sample Plots 05/27/2011

2428168304