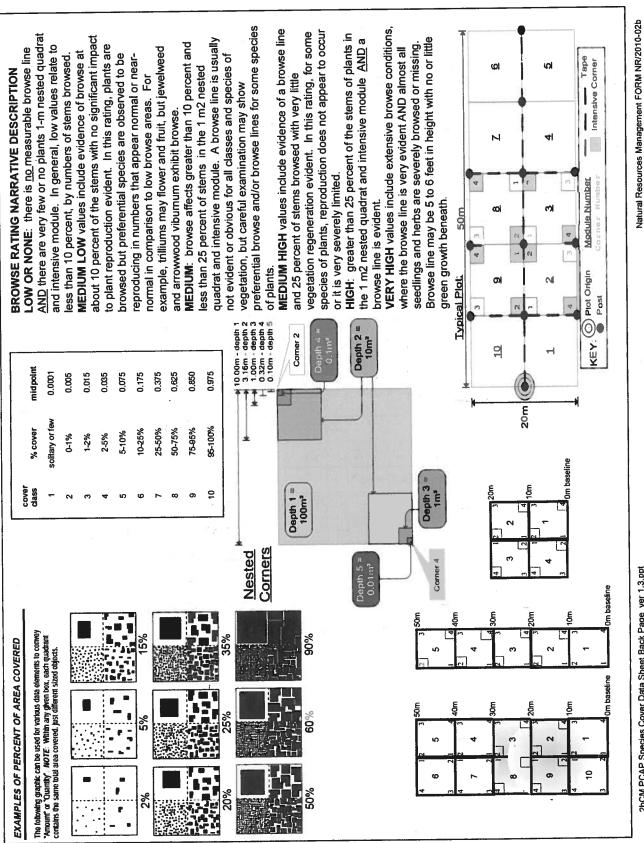
| CLEVELAND MET | ROPARKS Plant Community Asse | | Quality Control Form | Cieveland Metroparks |
|-------------------------|--|---------------------------|--|----------------------|
| Project Label: | PCAP | Plot No | 3428 Date Sampled: 6-25 | Lead: Lance |
| (A | | | Comment required if iten | n answer is NO |
| Parking/Access outsid | le of Park Boundaries: | YN | If yes, write details in Comments sect | |
| Field journals comple | | YN | | |
| Site sketch made on 1 | :3000 map? | Y) N | | |
| Check cover page | X-axis Bearing of plot recorded | N | | |
| | GPS coords. Recorded | Y N | | |
| | North direction recorded | X N | | |
| 55.0 TOW/S | Photographs taken? | Y) N | | |
| Plot No., Date agreem | | N N | | |
| Header data complete | | (Y) N | | |
| | d in all Intensive modules | X N | | |
| Browse Level By Spe | | YN | | |
| Woody stem quality c | | Y) N | | |
| Invasive plant quality | | X N | | |
| Ash trees mapped | | (y) N | | 3 10 |
| Cover by Strata? (con | firm cover type) | Y N | , , , , , , , , , , , , , , , , , , , | |
| | with matching plot #. | YN | | |
| | atasheet with initials and number | YN | | |
| Vouchers labeled on c | | X N | | |
| Pink flags removed | | X N | | |
| Data sheet QA before | leaving site? | N | 0 | |
| Common equipment re | | YN | | |
| Data sheets scanned? | turned to tab. | 6/28/13 | Enter date to left A | |
| Final data sheets scan | ned? | 6/2010 | Enter date to left | |
| Buffer Widths measure | | (Y) N | RC 8/2/13 | |
| Web Soil Survey | cu: | Ø N | AB 6/28/13 | |
| Voucher Location | Politigarator | | 740 6128113 | |
| (# vouchers collected) | Refrigerator | YN | F | |
| (# vouchers collected) | Press (#) | V 11 | Enter number to left | |
| 70019 | Drier Lt. accord | Y N | | |
| ACL DAD | Identified | Y N | | |
| HONOMO | Mounted | Y N | | |
| | Thrown away | Y N | | |
| core : 6 .m . | | | | |
| | ion: Is plot sampleable? | | | |
| Ves | Original GRTS point is sampleable | | | - |
| □ No | Original GRTS point lands in a non- | | ll in category below) | |
| | Point falls in a water (i.e. river, i Managed mowed area (i.e. golf | | | |
| | Paved area (i.e. parkinglot, road) | course, picnic area, righ | i-or-way) | |
| | ☐ Unsafe to sample (i.e. steep slope |) | | |
| | □ Other | | | |
| Additional Comments | s: | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| Data Quality Canton | 1 2011 via last revised 6/20/2011 | | | |

| house | *Definitions and values in CM PCAP FOM v. 1.0 and CVS Field Guide | Nuthority: G&C Pub Date: 1998 Minimum required fields in Bold and Underlined |
|---|--|---|
| herbaceous layer, very tew of these plants | Plot placement: GRTS Representative Random Stratified Random Transect component | ichen / / / / / / / / / / / / / / / / / / / |
| is quite a bit of glossy buckethorn in 1 | Camera No.: 17 Photo Nos.: 358 | oryo n/a |
| | Intensive modules: 2, 3, 8, 9 (EDIT IF MODIFIED) | high/ modera. low no |
| | | TAXONOMIC ACCURACY |
| | Plot size for cover data: v (hectares) X-axis Bearing of plot: $[179]^{\circ}$ | may still provide good data |
| dominated by red maple. Red oak and | GPS File Name: 3438A | Very thorough how much effort put into sampling. Hurried plots |
| | Coord. Accuracy: a m o ft 150 +- | |
| Rationale > GRTS point | Longitude: 81,44081 | □Perm. water □ Paved □ Slope □ Safety SAMPLING QUALITY* |
| At 3 morth of the bridged trail. | x = -y $y = -y$ (base of plot $x=0$, $y=0$) | PLOT NOT SAMPLED: |
| eorgy Hawthorn Parkway Cross the road, plot is just | ሩ ! | * Roles: Co-leader, Asst., Guide, Owner, Taxonomist, etc. |
| Location -> Park at Hurper Ridge off of | AD83/WGS84 🗆 l | |
| | ■ Lat/Long □ UTM □ StatePlane ■ deg □ deg min | K. Magle Woods Crew |
| | Coordinate system: Coord, Units | Lemmo |
| NOTES: Include Layout (any unusual shape details), Location (directions and landscape content). Rationale (why here) and Veg Characterization (description of community | Source of coordinates □ MAP ■ GPS | A Mance Plot leader |
| Diagram Plot origin GPS location photo taken, location of with direction permanent posts | If data not public why? | Party Role** |
| 4 | | End date (if > 1 day): |
| #3 | G Fuzz 100m G Fuzz 250m G Fuzz 500m | Date (mm/dd/yyyy): 06/25/2013 |
| 2 1 2 1 | | Level 4 (no nested corners sampled) |
| #8 | Landowner Cleve, MetroParks | Plot No.: 3428 |
| 2.10 | Local Place Names: Harper Ridge Picnic Area | Plot Name: Red Hot Maple Forest |
| | angle | $\mathbf{O}_{\mathbf{I}}$ |
| | LOCATION County | GENERAL INFORMATION Project Label: PCAP |
| ground Data Sheet Page 1 of 2 | CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet | CLEVELAND METROPARKS Plant Co |
| | | |

| of Fig. 1 and Retroop abuse Disast Community Assessment Program - Background Data Sheet | mity Assessment Pro | gram - Background Data Sheet | | | (P) Glurulund Mutrupanks | Ē |
|---|--|-------------------------------------|-------------|----------------|---|-----|
| Project Label: _ | PCAP | Project Name: Q1 SC 2013 | P | Plot No.: 3428 | | f 2 |
| MODIFIED NATURESERVE CLASS* | | DISTURBANCES | | | | 丄 |
| | Fit=Conf= | type* severity** | ago | % of plot | description | |
| P10-B | | Natural Natural | | 00% | IUSA | |
| COMMINITY NAME: | | Fire | | | | |
| | 6 | Cut | | | | |
| Htypical Juccession W | oody Community - | Animal | 0 | 1002 } | Drause | L |
| Red Maple Woodland | | Other | | | | |
| HOMOGENEITY | | **L=low, ML=med lo | w, M=med, M | IH=med hig | **L=low, ML=med low, M=med, MH=med high, H=high, VH=very high | |
| orHomogeneous □ Compositional trend across the plot | nd across the plot | Current Land Use: | tack | 7 | 1 | |
| ☐ Conspicuous inclusions ☐ Irregular/pattern mosaic | nosaic | Former Land Use: | Unknow | t) awa | priculture ? | |
| | HYDROLOGIC REGIME* | | | | | |
| | d Upland (seldom flooded) | ntermittently Hooded | | | | - 9 |
| SALINITY* | □ Intermittently/scasonally saturated | turated | | | | |
| □ Saltwater | (seldom flooded) | □ Permanently flooded | Will be | | | |
| ם Brackish | ☐ Permanently/Semipermanent. saturated | | | | | |
| o Fresh | (dry <1/yr, seldom flooded) | | | | | |
| debpland (n/a) | Occasionally flooded (<1/yr) | r) □ Tidal/Seiche flooded irregular | <u> </u> | | | |
| | Temporarily flooded | (e.g. wind, storms) | | | | |
| (by default unless plot is a wetland) | | □ Unknown | | | | |
| Additional notes & diagrams: (Representativeness of plot to the stand, successional status, maturity, etc.) | s of plot to the stand, succession | onal status, maturity, etc.) | | | | |
| There are several larger ash trees that have yet to succumb to EAB. | rger ash tree | s that have yet + | o Suci | cum 6 | to EAB. | |
| Multiflora rose is a | bundant in | the surrounding as | ea but | not | present in the plot | 95- |
| itself, There is a /c | t of woody | debris on the forest | floor | \ ' | | |
| | 0 | | | | | |
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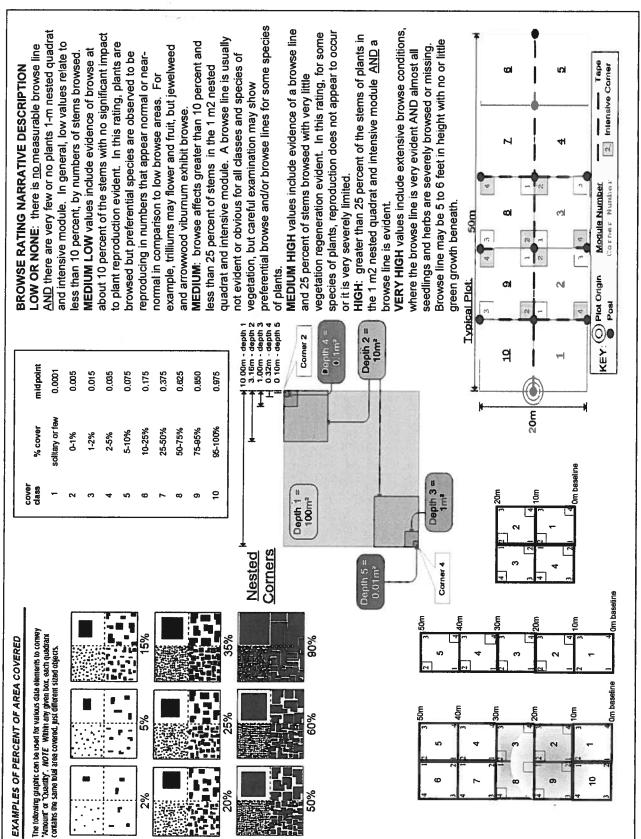
| ge 1 of x_ver 3.xls last revised 5/29 | 2 Unknown 22354 4 1 C4-361 | -Solidago Sp. Virkinundunte4-360 | opulus var or | Pinus strobus | a losmilax rotundifolia | Hriodeno | Bar | <u>-</u> | 10 | Diagraphic Sp spend | S I | 2 | O Viburnum dentatum | Unknown C4-359 | Mass sp. | Umus americana | Traxinus sp. | A Hoersp. scedling | - | 6 Fraxinus | 13 6 Franquia alnus | Cacex S | a afrimus serotina | S) | | S H (F)(A) Br Species c | Strata - Cov. entire plot %unveg. litter (bare litter) | entire plot | | Br = Browse Level Ise cover classes to intensive module: | Total modules: 10 Intensive modules: | Project Label: PCAP Project name: 01 SC 2013 |
|--|----------------------------|----------------------------------|---------------|---------------|--|----------|-----|----------|----|---------------------|------------|------|---------------------|----------------|----------|----------------|----------------------------------|--------------------|---|------------|---------------------|---------|--------------------|-------------------|----------------|---|--|-------------|------------|--|---|--|
| Natural Resource Management FORM NR/2010-02a | 70 | 2 | | | \$1 \$2 \$2 \$3 \$3 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4 \$4 | f (5) | 43 | | 2 |)9 | · · | しまりま | 2) | | ()) | | 2) 2) 2) 2) 2) 2) | ے دن | 3 | 2 | ಖ ಖ ಖ | 3 F | 54 363 | ري ا ا ا | 48 H H 8 H H 8 | depth cov | soi) | 1 0 | ater 1 0 1 | mod comer mod co | les: \mathcal{L} Plot configuration: 2×5 Plot area (ha): \mathcal{L} | Project name: 01 SC 3013 Plot no.: 3428 |

2aCM PCAP Species Cover Data sheet Page 10f x_ver 3.xls last revised 5/29/2012 ceh



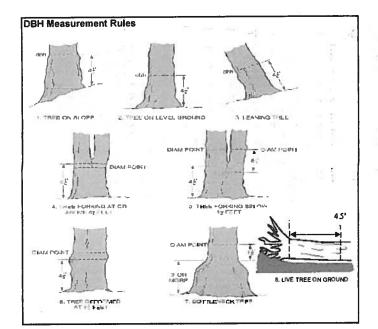
2bCM PCAP Species Cover Data Sheet Back Page_ver 1.3.ppt

| Project Label: | Project Label: PCAP Project Label: PCAP Project Label: PCAP Project Label: PCAP | nent Program Species Cover Data S Project name: ひょくと えのく | S Cover Data | | Plot no . 2428 | | Page 2 | 2 of 2 | |
|-----------------|--|---|--|---------------|-----------------|-------------------|---|-----------|---------|
| Total modules: | 10 | Intensive modules: | 4 Plot | onfigurati | 2×5 | ' | Plot area (ha): | - | |
| | Br = Browse Level. Use cover classes to | Estimate for each intensive module: | mod corner mod 3 4 3 depth cov depth | cov depth cov | mod comer mod | corner mod corner | er mod corner mod 9 4 9 depth cov depth | cov R R | COV R |
| Metroparks | entire plot | %unvegetated open water | - - - | 1-1- | | | | | |
| ara - | | %unveg. litter (bare litter) | | 1 | | - - | | | |
| T S H (F)(A) Br | | c Voucher# | depth cov depth | cov depth cov | depth cov depth | cov depth cov | depth cov depth | cov depth | 8 |
| 93 | Ulitis asstivatis | | | | | | | 70 | |
| | tolygonum vivainianum | | | | | | | 70 | |
| 2 | arpinus carolinensis | 1 | | | | | | - | 2 |
| 3 | 20 | MCL OWO | | | | - | | R | - |
| 2 | magnolla acuminata | 775113 | | | | - | | R | W |
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2bCM PCAP Species Cover Data Sheet Back Page_ver 1.3.ppt

| CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet | Community Asse | ssment Pro | gram N | atural V | Voody S | tem Dat | a Sheet | | | | | | > | |
|---|--------------------|------------|---------|--------------------------|-----------------------------------|-----------|---------------|----------|----------|----------|----------|------------|-------------|----------------------|
| Project Label: P Explain subsample (additional room on back): | PCAP back): | Project | t Name: | Project Name: 0[\$0,30[3 | 013 | | Plot No.: 342 | 3428 | | Page: | _ | <u>o</u> , | Olo Cleye | Cleyeland Metroparks |
| | # stems | ns % sub | # | size class | size class (cm) woody stems >1.4m | y stems > | 1.4m | | | | | | | |
| 200 | | or super | | · - | N . | 3 | • | Un | | 7 | | 9 | 1 0 | (CM) " |
| 1 Acer rubrum | Nonciscial DioMaga | Salitific | Ciumbs | 9 2 | 2.5 | 2.546 | 9 <u>10</u> | 10 - <15 | 15 - <20 | 20 - <25 | 25 - <30 | 30 - <35 | 35 - <40 | >40 (record each |
| Lindera hemanin | • • • | | * 000 | | | | | | | | | | | |
| Standing Dead | | | | | | | | | | ° | | | | |
| Haxinus sop. | | | | | | | | | | | 1 | | | 40.10 |
| 1 Smilax rotundificia | 3 | | | | | | | | | | | | | 3.0 |
| 2 Acer rubrum | - 0 | | | | | | | | . 0 | ١ | 0 | | | |
| 2 Stanting Dead | | | | | | | | | | | | | | |
| 2 Fraxinus pennsylvanica | ca | | | | | | | | | | | | | |
| 2 Paminus Francus | | | | | | | | | | | | | | |
| | | | | | | | | | ì | | | | | |
| | | | | | - | , | 9 | 0 0 | | 6 | | | | |
| | • | | | | | | | | • | | | | | 40.7 |
| 3 Quartus rubra | .6 | | | | | | | | | | 0 | | 6 | 44.6 |
| 1 | 0 | | | | | | | | | 00 | | | | 48.6 |
| 3 Lindera benzoin | • | | | | | | | | | | | | | |
| 4 Lindenz benzoin | | | 0 0 | | | | | | | | | | | |
| A Rer rubrum | • | | | | | | | | | | | 6 | | 45,0,62.4 |
| 4 Frangula ulnus | • | | | | | | | | | | | | | |
| 4 Quercus rubra | 0 | | | | | | | | | | | | | |
| 4 Prunus serohna | 0 | | | | | | | | | | | | | |
| 4 Fraxinus Sop | . 0 | | | | | | | | | | | | | |
| 5 Acer rubrum | * | | | | | | | 00 | | 0 | ì | 0 | 00 | |
| 5 Acer Saccharum | | | | क ख | , | 9 | | | | | | | | |
| Standing Dead | | | | | 0 | | • | | | | | | | |



Woody Stem Deer Browse

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

Record using the tally system from 1 to 1













ASH CANOPY CONDITION

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



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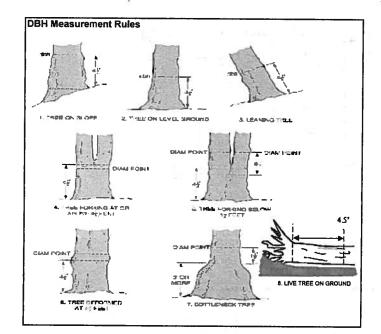
E

ASH CANOPY BREAKUP CONDITION (for dead trees):

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

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

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet 7 Her rubium + Hadas grand to the Fagus Charding Tree Hier secenary 出来はら training joins whatlander Querras rubra Lindera Densein Acer rubrum Megnolia a cuminata Frasinus spopenns Pravica Explain subsample (additional room on back) - Surange Prunus Scrotina Fraxi nus Har rubrum Her rubrum Standing Dead Vitius aostvalus Heer saccharum runus sontina Lindera benzoin waterned map as mercus dds Dead Takes Corpora Project Label: and bla PCAP voucher# 60 # stems 0-1.4m promsed or super % sub Project Name: 01502013 . clumps shrub size class (cm) woody stems >1.4m <u>2</u> 1-<2.5 2.5-<5 Plot No.: 3428 5-<10 10 - < 15 15 - <20 20 - <25 Page: h 25 - < 30 30 - <35 으 Gleveland Metroparks 35 - <40 ô 6 北 59.4,40. 古 >40 (record each tree) O =



Woody Stem Deer Browse

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

Record using the tally system from 1 to













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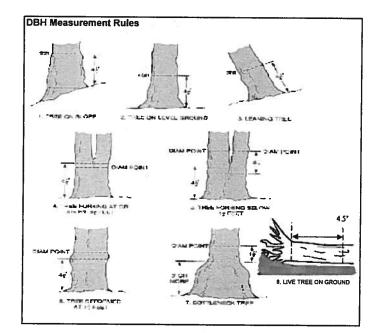
E

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10 10 mod # CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet HOE Standing Dead Explain subsample (additional room on back) Her rubrum Lindera benzoin Carpinus carollinary Sacharum Project Label: __ PCAP voucher# 0-1.4m # stems browsed or super sample % sub Project Name: 0|S0 3013 Le. shrub clumps # size class (cm) woody stems >1.4m P^1 1-<2.5 2.5-<5 • Plot No.: 3426 5-<10 10 - < 15 9 6 15 - < 20 e E 20 - <25 Page: 25 - < 30 W 30 - <35 잋 9 (Cleveland Metroparks 35 - <40 5 >40 (record each tree) ⇉



Woody Stem Deer Browse

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

Record using the tally system from 1 to













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- D: Stem still standing and tertiary main branches present.
- E: Central stem still standing.

24 23

21 20

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

22

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

Note: For Ground-cover plants record "stem #" but in comment field describe # of colonies and patch size (S,M, L)
4bCM PCAP Invasive species datasheet.xls last revised 6/11/2012 ceh

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

+45 degrees

E.

At aspect

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| Module # | C? | Corner | Comer |
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| CLASSIFICATION | | | |
|--|----------|-------|---|
| (FIT = excellent g Fit and Confidence | | | |
| Hydrogeomorphic class (WETLANDS ONLY): | | 17 | |
| n DEPRESSION | <u> </u> | Conf- | |
| a IMPOUNDMENT a Beaver a Human | Fil | Conf- | |
| DRIVERINE DHeadwater DMainstem DChannel | 1 | Conf= | |
| □ SLOPE (ground water hydrology or on a physical slop) | 7 | Conf | |
| n FRINGING in Reservoir in Natural Lake | 1 | Conf= | |
| a COASTAL (specify subclass) | F | Conf | |
| n BOG (strongly, moderately, weekly ombrotrophic) | File | Conf | l |
| Ohio EPA VIBI Plant Community Class (WETLANDS ONLY): | NI'Y | | |
| □ FOREST □ swamp forest □ boy forest □ forest seep | E I | Conf | |
| □ EMERGENT □ marsh □ wet meadow □ open bog | File | Conf= | |
| □ SHRUB □ shrub swamp □ tall sh. bog □ tall sh. fen | F | Conf= | |

MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only

llope 1 = slight elevational grade across module (hit) anks for microhabitat features. Select one or select two and average the score.NOTE: If mod falls on a slope automatically gets renked based on steepness (1-3) to begin + any features present Slope 2 = falls on slope ~20 ° Stope 3 = maximum steepness that can be safely sampled ~45°

- feature is absent or functionally absent from the wetland
- feature is present in the wetland in very small amounts or if more common, of low quality
- 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

| | | 479 | | | | c.w.d coun | for pieces with | c.w.d count for pieces with minimum 1m length | |
|--|------|--------|----------|-------------------|-------------|------------|-----------------|---|-------------|
| Lussocks hummocks depressions (2-12 cm) (12-40cm) 440 cm | | | ne. of | no of | no nucro. | c n,d | c.w.d | cwd | microhab. |
| | | | lussocks | hummocks | depressions | (2-12 cm) | (12-40cm) | >40 cm | interspers. |
| depth 3 depth 2 depth 1 dept | | | | uplands (Tip-Ups) | | | | | |
| Ixim 3.16x3 16m 10x10m | | 222 | depth 3 | depth 2 | depth 1 | depth 1 | depth 1 | depth I | depth 1 |
| Count Count Count Count Count Count Count | | | lxlm | 3.16x3.16m | 10x10m | 10x10m | 10x10m | 10x10m | 10x10m |
| 0 0 3 45 0 0 0 | mod# | corner | (count) | (count) | (count) | (count) | (count) | (count) | (rank) |
| 0 0 3 45 1 0 | 7 | | ۵ | 0 | دو | 50 | 0 | 0 | w |
| 0 0 3 43 1 0 | 3 | | O | 0 | 3 | 45 | | 0 | w |
| 0 0 3 43 1 0 | 8 | | 0 | 0 | 3 | 43 | - | 0 | w |
| | 4 | | O | 0 | ده | 43 | 1 | 0 | w |
| | | | | | | | | | |
| | - | | , | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

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

** Terrain Shape Index (site microtopographic shape)

Landform Index (position within landscape)

Z

+270 degrees +315 degrees

٤

standing ~10 m away.

+135 degrees +136 degrees +180 degrees +225 degrees

SW

angle from recorders eye to eye of person

angles formed by local slopes. For TSI measure

LFI is angle of plot to the horizon. TSI is

SE

| | | | | 1 | | Г | | | |
|---|----|----------|----|----|-----|------------|----|--------|--------|
| 1 | ٩ | œ | w | 2 | 9 | ∞ | ω | 2 | Module |
| 1 | 00 | 19 | 4! | હ | 00 | 7 | Š | и 0 | 2 |
| + | 12 | 7.7 | = | 0 | 46 | 3 3 | ī | Ιq | s |
| + | 2 | <u>-</u> | ü | 27 | એ જ | 16 | رو | 2 | (7) |
| 1 | 30 | N | - | 19 | 86 | d | بو | 19 | * |

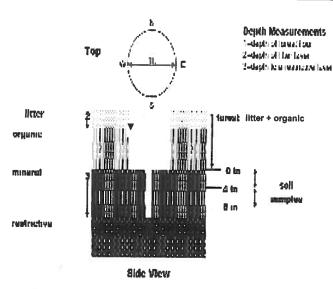
NOTE: tussock and hummocks are counted in BOTH nested quadrat corners but counts are aggregated.

COVER BY STRATA

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

"Very tall shrubs are sometimes included in the tree stratum

^{***}Tree seedlings are often defined as up to 1.4 m height or as <2.5 cm DBH in which case they would span the herb and shrub layers.



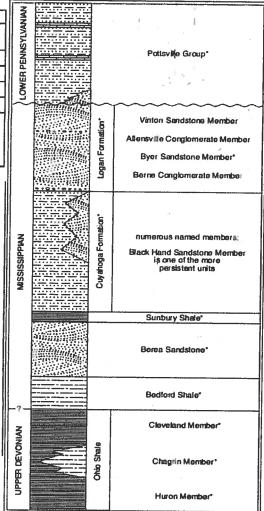


FIGURE 3-20.—Generalized section of Upper Devoman, Missesippian, and Lower Pennsylvanian formations in northeastern Ohio. Asterisks indicate units that are feasiliferous. This composite section represents about 400 meters of rock exposed across the area. The section is not to scale, but the thicknesses indicated are proportional. The term "Waver by its used in the older literature to refer to Mississippian rocks in Ohio. Some geologists use the European term "Carboniferous," which encompasses the Missisppian and Pennsylvanian Periods of the U.S. Many units have been named within the Cuyahoga Formation, but most units are local and cannot be traced over great distances. The Black Hand Member is a spectacular massive sandstone that is fairly widespread but discontinuous. See Hyde (1953), Hoover (1960), and Collins (1979) for more information on Mississippian rocks in Ohio. See figure 3-18 for explanation of rock types.

^{**}Can also include seedlings of shrubs, i.e. all shrubs <0.5m

CLEVELAND METROPARKS Plant Community Assessment Program - Soils, Crown Cover, Standing Biomass Data Sheet 6a Project label: PCAP Project Name: 01502013 Project Name: 0/502013

0

Concessed Metroparks

Page: 1 of 1

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

Soil pit module # 20 cm 5 cm matrix color matrix color exture* oxid roots %mottle hydr. cond.*** edox features** lexture* xid roots mottle ottle color ottle color (one per entire plot) 1 /z

refer to texture classes on reverse side hydro. cond.***

I S M(D)

** e.g. hydrogen sulfide odor, gleying, etc. lotes: include evidence of earthworms (worms indundated S=saturated M=moist D=dry



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

Soil Series Source: Ohio Soil Survey Soil Series/Type: WaA - Wadsworth Silt Loam Soil Collection Module Horizon (A. B. C) Parent Material: Til Depth to rest. Layer: Hote thun 80 in . | 01 CM 2,3,8,9 composited andform type: Till placins Veb Soil Survey Inform

□ Well drained Somewhat poorly dr. Excessively dr. RAINAGE* Somewhat excessively Moderately well dr. Very poorly dr

 Impermeable surface AB 6128113

redox features**

Z

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

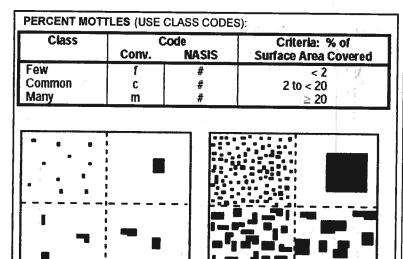
| | | 17 | | |
|-----|-----|-----|-------|------------------------------------|
| 9 | 8 | 3 | ۵ | mod# |
| 1 | 1,4 | 6:1 | ನ,0 | l litter+ organic depth (cm) |
| 1 | i.4 | Ü | તે છે | 2 litter depth (cm) |
| Ø | Ø | Ø | Ø | water depth (cm) |
| 730 | 730 | 730 | 730 | depth sat soil (cm) |
| | | | | |

| EARTH SURFACE & GROUND COVER | CE & GROU | ND COVER | |
|------------------------------|------------|------------------------|---------|
| Underlying Earth Surface* | Surface* | Ground Cover | |
| (Sum = 100%) | percent | (Euch ≤ 100%) | percent |
| Histosol | 0% | Coarse Woody Debris*** | 15° |
| Mineral Soil | 100% | Fine Woody Debris**** | 8 |
| Gravel-Cobble* | 0% | Litter | 70% |
| Boulder** | 000 | Duff (Ferm.+ Humus) | (9% |
| Bedrock | 090 | Bryophyte- Lichen | 19 |
| * Gravel-Cobble = 1/16-10* | · 1/16-10* | Water | ە ك |
| **Boulder = > 10 in | 5 | Bare Soil | 5 |
| *** >5 cm in diameter | neter | Road/Trail | Q. |
| **** <5 cm in diameter | meter | Other | Þ |

| COVER BY STRATA estimate using midpoi | COVER BY STRATA estimate using midpoints of 5,ex:3, 8, 13 | %,ex:3, 8, 13 |
|---------------------------------------|--|---|
| Strata | Height Range (m) | Total Cover (%) |
| Tree | 5 | 88% |
| Shrub | .5.5 | 8% |
| Herb | 0.5 | 8% |
| (Floating)* | • | |
| (Aquatic)* | | |
| * rooted and fi | rooted and floating or slightly emersed | sed |
| ** submersed, | ** submersed, most plant mass below surface | w surface |
| SEE BACK OF | SEE BACK OF PAGE FOR "TYPICAL"STRATA DESCRIPTIONS. STRATA CAN VARY BY CO' | SEE BACK OF PAGE FOR "TYPICAL"STRATA DESCRIPTIONS. STRATA CAN VARY BY COVER TYPE. |

| Note: | □ Deer | □ Gravel | Bootley unsanctioned | o Hiking sanctioned | o Bridle | a All Purpose | Туре | record type and cover for each | TRAIL INFORMATION: | |
|----------|--------|----------|----------------------|---------------------|----------|---------------|--------|--------------------------------|--------------------|--|
| <u>,</u> | | | | | | <i>y</i> | %Cover | r each | Z. | |

| □ < plot size | □ 1-3 x plot size | 3-10 x plot size | a 10-100 x plot size | $\triangle > 100 \times \text{plot size}$ | □ >600 x plot size | STAND SIZE | \$E |
|---------------|-------------------|------------------|----------------------|---|--------------------|------------|-----|
| | | | | | | | 4 |



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

0= Organic

1= Loamy

2= Clayey

3= Sandy

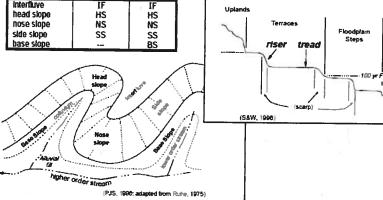
4= Coarse Sand

9= Not measured - make plot note

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

Code PDP NASIS interfluve ΪF head slope HS HS nose slope NS NS side slope SS base slope

2%



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

| Position | Code |] ` |
|------------------------------|----------|-----|
| summit | SU | 1 |
| shoulder | · SH | |
| backslope | BS | 1 |
| footslope | FS | |
| toeslope | TS | J |
| Su Sii | 10 | Bs |
| / | Fs Ts Ts | Fs |
| | | 1 |
| | | |
| dPJQ. 1986 acastro from Rune | Altuvium | |

HYDROLOGIC REGIME Modified from Grossman et al 1998. (Frequency and duration of flooding.) UPLAND: Not a wetland. Very rarely flooded.

Terraces

riser

tread

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

Code

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

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

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

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

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

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

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

| | | | | | | | | | | | | | | _ | | | | | | | 70 00 | |
|--|--------------------------------|----------|--------------------|----------|-------------------|-----------------|----------------------|----------------------|--|---------|---------|----------|---------|----------|---------|---------------------------------|------------------------------|-----------|-------------|----------|--------|-------|
| | | | | | | | FOF | RM B-1: | BUFF | ER : | SAN | /PL | E PL | | | | | | by (initial | | — (| |
| Site | ID: P | CAF | 5 | C | 392 | 94 | 346 | 18 | | | | | | | DATE | 06 | 125 | 1 2 | 20 | | 3 | |
| Locati | | | | | | | | | FIII | in b | ubb | le(s) | if pl | ot(s |) cou | ld not be | sample | d and | flag · | → | | |
| @ AA | Center | 0 | N | 0 | S | OE | 0 | W | OP | lot 1 | | OF | Plot | 2 | OP | lot 3 | | | | | | 8 |
| Fill in bubble Strata Secti | es for all th on: Fill in a | at app | oly: Ca riate c | nopy 1 | Гуре: I lass b | D = D oubble | eciduous for each | · F = Evemne | Buffer en. Leaf T or each plo | voe: B | = Bro | adleaf | N = N | ieedle | Leaf. A | bsent: No tree derate(10-40° | e canopy. %); 3 = Heav | /y (40-7: | 5%), 4 = \ | /ery H | eavy (| >75%) |
| Buffer | Canopy | у Тур | e: 🕡 | (- |) At | seni | : O | Buffer | Canopy | у Тур | e: (• |) (|) Ab | sent | : O | Buffer | Canopy | Type: | 0 0 |) Ab | sent | : O |
| Plot 1 | Lea | f Type | e: 🔞 | <u> </u> |) | | Flag | Plot 2 | Lea | f Typ | e: 🕑 | <u> </u> | | | Flag | Plot 3 | Leaf | Type: | <u> </u> | 1 | | Flag |
| Big Trees (| >0.3m DBH) | 0 | 0 | 0 | 1 | 0 | | Big Trees (| 0.3m DBH) | 0 | 0 | 0 | 0 | <u> </u> | | Big Trees | (>0.3m DBH) | 0 | 00 | 0 | 0 | |
| mall Trees (| <0.3m DBH) | 0 | 0 | (| 0 | 0 | | Small Trees (| <0.3m DBH) | 0 | 0 | 0 | 0 | 0 | | Small Trees | (<0.3m DBH) | 0 | 0 0 | 0 | 0 | |
| Woody Shrub | s, Saplings 1-5m HIGH) | 0 | © | 0 | 0 | 0 | | Woody Shrub (0.5n | s, Saplings n-5m HIGH) | 0 | 0 | 0 | 0 | 0 | | | ıbs, Saplings im-5m HIGH) | 0 | 0 | 0 | 0 | |
| Woody Shrub | | 0 | | 0 | 0 | 0 | | Woody Shrub | | 0 | 0 | 0 | 0 | 0 | | | bs, Saplings 0.5m HIGH) | 0 | 0 0 | 0 | 0 | |
| | Forbs and Grasses | 0 | (1) | 0 | 0 | 0 | | | Forbs and Grasses | 0 | 0 | 0 | 0 | 0 | | Herbs, | Forbs and Grasses | 0 | 00 | 0 | 0 | |
| Bare | ground | 0 | 0 | 0 | 0 | 0 | | Bare | ground | 0 | 0 | 0 | 0 | Ō | | Bar | e ground | 0 | 0 0 | 0 | 0 | |
| Li | tter, duff | 0 | 0 | 0 | 0 | 0 | | Li | tter, duff | 0 | 0 | 0 | 0 | 0 | | L | itter, duff | 0 | 00 | 0 | 0 | |
| | Rock | 0 | 0 | 0 | 0 | 0 | | | Rock | 0 | 0 | 0 | 0 | 0 | | | Rock | 0 | 0 | 0 | 0 | |
| | Water | | Ō | 0 | 0 | Ō | | | Water | Ō | Ō | | 0 | Ō | | | Water | 0 | 00 | 0 | 0 | |
| | ubmerged | | 0 | 0 | 0 | 0 | | | ubmerged | 0 | 0 | 0 | 0 | Ō | | | Submerged | 0 | 00 | 0 | 0 | |
| Submerged Vegetation V | | | | | | | | | | | | | | | • | | | | | | | |
| Res | idential | and | Urba | an Si | tress | sors | | | Hydrolo | gy S | tres | sors | 700 | | | | Agricultu | ıral & | Rural S | itres | sors | |
| Fili bubbi | e if pres | ent - I | Piot | 1 | 2 | 3 | Flag | FIII bubbi | e If prese | ent - F | Piot | 1 | 2 | 3 | Fiag | Fill bubble | if presen | t - Pio | 1 | 2 | 3 | Flag |
| Road - gr | | | | 0 | 0 | 0 | | Ditches, C | hanneliza | ation | | 0 | 0 | 0 | | Pasture/Ha | ay | | 0 | 0 | 0 | |
| Road - tw | o lane | | | 0 | 0 | 0 | | Dike/Dam | | 8 Bed | | 0 | 0 | 0 | | Range | Tario Ilir | | 0 | 0 | 0 | |
| Road - fo | ur lane | | VE T | 0 | 0 | 0 | | Water Lev | | l Stru | cture | 0 | 0 | 0 | | Row Crops | | | 0 | 0 | 0 | |
| Parking L | .ot/Paven | nent | | 0 | 0 | 0 | | Excavation | n, Dredgii | ng | uffs | 0 | 0 | 0 | | Fallow Fiel | | RESTING | 0 | 0 | 0 | |
| Golf Cou | rse | 1/18 | 20 | 0 | 0 | 0 | | Fill/Spoil E | Banks | 15 11 | 114 | 0 | 0 | 0 | | Fallow Fiel SHRUBS, TRE | | ASS. | 0 | 0 | 0 | |
| Lawn/Pai | rk | | | 0 | 0 | 0 | - | Freshly De | | Sedim | nent | 0 | 0 | 0 | | Nursery | | | 0 | 0 | 0 | |
| Suburbar | Resider | ntial | | 0 | 0 | 0 | | Soil Loss/ | Root Exp | osure | | 0 | 0 | 0 | | Dairy | | | 0 | 0 | 0 | |
| Urban/Mu | ultifamily | | | 0 | 0 | 0 | | Wall/Ripra | ıp | | | 0 | 0 | 0 | | Orchard | | | 0 | 0 | 0 | |
| Landfill | | Ų initis | | 0 | 0 | 0 | | Inlets, Out | | | | 0 | 0 | 0 | | Confined A | | ding | 0 | 0 | 0 | |
| Dumping | | | | 0 | 0 | 0 | | (EFFLUENT | OR STORM | | | 0 | 0 | 0 | | Rural Resi | dential | 1 | 0 | 0 | 0 | |
| Trash | | | | 0 | 0 | 0 | | (SHEETFLO) | | Input | | 0 | 0 | 0 | | Gravel Pit | | | 0 | 0 | 0 | |
| Other: | | | | 0 | 0 | 0 | | Other: | | | | 0 | 0 | 0 | | Irrigation | | | 0 | 0 | 0 | |
| Other: | | _ | _ | 0 | 0 | 0 | L | Other: | | | | 0 | 0 | 0 | | Other: | | - | 10 | 0 | 0 | |
| Indu | ıstrial D | evel | opm | ent S | Stres | son | 8 | 100 | | | | | labit | at/V | egeta | tion Stress | sors | | | | | |
| Fiii bubbl | e if pres | ent - | Plot | 1 | 2 | 3 | Fiag | Fiii bubbie | If prese | nt - F | Piot | 1 | 2 | 3 | Flag | Fill bubb | ie if pres | ent - Pl | ot 1 | 2 | 3 | Flag |
| Oil Drillin | g | | | 0 | 0 | 0 | | Forest Clea | ar Cut | | | 0 | 0 | 0 | | Herbicide L | Jse | U-700 | 0 | 0 | 0 | |
| Gas Well | s | | | 0 | 0 | 0 | | Forest Sele | ective Cut | | | 0 | 0 | 0 | | Mowing/Sh | rub Cutting |) | 0 | 0 | 0 | |
| Mine (sur | face) | 2000 | W. | 0 | 0 | 0 | | Tree Planta | ation | 10.15 | | 0 | 0 | 0 | | Trails | | | 0 | 0 | 0 | |
| Mine (un | derground | d) | WY | 0 | 0 | 0 | | Tree Cano | py Herbiv | огу | | 0 | 0 | 0 | | Soil Compa (ANIMAL OR H | action IUMAN) | | 0 | 0 | 0 | |
| Military | | | | 0 | 0 | 0 | | Shrub Laye | | d | | 0 | 0 | 0 | | Offroad vet | nicle dama | ge | 0 | 0 | 0 | |
| Other: | 1101 | | | 0 | 0 | 0 | | Highly Gra | zed Grass | ses | | 0 | 0 | 0 | | Soil erosion | • | ID, WATE | R O | 0 | 0 | |
| Other: | | (A) 10 | | 0 | 0 | 0 | | Recently B | urned Fo | rest | | 0 | 0 | 0 | | Other: | | | _ 0 | 0 | 0 | |
| Other: | | | 11 | 0 | 0 | 0 | | Recently B | | asslaı | nd | ō | 0 | 0 | | Other: | | | 0 | 0 | 0 | |
| | lag codes | : K= | No me | | | mad | e, U = S | uspect meas | urement., | F1,F2 | 2, etc. | = mis | c. flag | s ass | igned b | y each field c | rew. | 2. | 42816 | | | |
| | Buffer Sa | | | | | Exp | lain all | flags in comr | nent section | on on | the ba | ack of | this fo | m | | | | 4. | | 5504 | | |
| | | | | | | | _ | | | | | | | | | | | | 10.00 | | | |

| Site ID: | ^ | Λ Λ. | D | <i>C</i> ^ | 2400 | | | Ţ | | Reviewed b | y (Initia | i); | | |
|--|---|---|-------------------------------------|---|--|---|--------------------------------------|--|---|--|----------------------------|---------------|------------------|------------------|
| Oite iD. | | CH | - | SC | 3428 | DAI | E: (| 2.0 | ا ام | 2512613 | | | | |
| Confirmation | n a fiii | ed da | ata b | ubble i | ndicates presence and an unf | ilied | bubb | ie in | dicates | absence by filling in this bub | ble | | | 2 |
| Fill bubble if present - Plo | t 1 | 2 | 3 | Fiag | Fili bubble if present - Plot | 1 | 2 | 3 | Fiag | Fill bubble if present - Plot | 1 | 2 | 3 | Flag |
| Eurasian Watermilfoil | 0 | 0 | 0 | | Purple Loosestrife | 0 | 0 | 0 | | Johnson Grass | 0 | 0 | 0 | |
| Water hyacinth | 0 | 0 | 0 | | Knotweed | 0 | 0 | 0 | | Kudzu | 0 | 0 | 0 | |
| Yellow Floating Heart | 0 | 0 | 0 | | Japanese Knotweed | 0 | 0 | 0 | | Multiflora Rose | 0 | 0 | 0 | |
| Giant Salvinia | 0 | 0 | 0 | | Perennial Pepperweed | 0 | 0 | 0 | | Common Buckthorn | 0 | 0 | 0 | |
| Garlic Mustard | 0 | 0 | 0 | | Giant Reed | 0 | 0 | 0 | | Himalayan Blackberry | 0 | 0 | 0 | |
| Poison Hemlock | 0 | 0 | 0 | | Cheatgrass | 0 | 0 | 0 | | Tamarisk | 0 | 0 | 0 | |
| Mile-A-Minute Weed | 0 | 0 | 0 | | Reed Canary Grass | 0 | 0 | 0 | | Other: | 0 | 0 | 0 | |
| Birdsfoot Trefoil | 0 | 0 | 0 | | Common Reed | 0 | 0 | 0 | | Other: | 0 | 0 | o | |
| Canada Thistle | 0 | 0 | 0 | | Leafy Spurge | 0 | 0 | 0 | | Other: | 0 | 0 | 0 | 500 |
| | 19. | | | | | | | | | Other: | 0 | Ö | ö | |
| | | | | | PLOT COORE | INA | TES | | 1/4 | | | | <u></u> | |
| If Buffer Plot 3 can not be a Plots are centered on the B flag box, and describe wher | ccesse uffer To the cente | ed, tal ranse oordi r of P | ke the ects a nates lot 3 | e coord and the of were to as poss | inates at the nearest practicable coordinates will indicate the local aken and why in the comment sible or at the center of the last | e loca ation section acces | tion A of the n belo ssible | trans | G THE sect. Fil he coor ar Plot. | TRANSECT. This is important to the "nearest practicable local dinates of the nearest practicable and comment below) | ecau: | landa da la l | - 611 | r In th |
| If Buffer Plot 3 can not be a Plots are centered on the B flag box, and describe wher either placed as close to the Location of coordina AA CENTER Of | ccesse uffer T e the c e cente | ed, tal ranse coordin r of P hoos | ke the cts a nates | e coording the cas were to as possible): | inates at the nearest practicable coordinates will indicate the local aken and why in the comment sible or at the center of the last | e loca ation section acces cticat | tion A of the n belo ssible | LON trans ow. Ti Buffi catio | G THE sect. Fill the coon ar Plot. | TRANSECT. This is important to in the "nearest practicable local dinates of the nearest practicable in the interest practical inter | ecau: ition" le loca | landa da la l | e, fill can b | r In th |
| f Buffer Plot 3 can not be a Plots are centered on the B lag box, and describe wher either placed as close to the Location of coordina AA CENTER O f | ccesse uffer The the contents center the contents tes (c | ed, tal ranse coordin r of P hoos | ke the cts a nates | e coording the cas were to as possible): | inates at the nearest practicable coordinates will indicate the local aken and why in the comment sible or at the center of the last | e loca ation section acces cticat | tion A of the n belo ssible | LON trans ow. Ti Buffi catio | G THE sect. Fill the coon ar Plot. | TRANSECT. This is important to a line the "nearest practicable local dinates of the nearest practicable local dinates of the nearest practicable and comment below) | ecau: ition" le loca | landa da la l | e, fill can b | r in th |
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| Site I | D: P(| CAF | 5 | C | 34 | 129 | 8 | | | | | | | | DATE | 06 | 125 | 1 | 2. | <u> </u> | 1.3 | | |
| Location | on: | | | | | Ne Me | | and the si | FIII | In b | ubb | le(s | if pl | ot(s |) cou | ld not be | sample | an | d fla | ıg – | → | | |
| OAAC | Center | 0 | N | 0 | S | OE | 0 | W | OP | lot | 1 | 01 | Plot | 2 | OP | lot 3 | | | | | | | |
| Fill in bubble Strata Section | es for all th on: Fill in a | at app | oly: Ca | nopy cover o | Гуре: lass b | D = D oubble | eciduous for each | · F = Everore | Buffer en. Leaf T or each plo | voe: E | 3 = Br | nadlea | : N = N | leedie | Leaf. A | bsent: No tree derate(10-40% | e canopy. %); 3 = Heavy | (40- | 75%); | 4 = Ve | ery He | avy (| >75%) |
| Buffer | Canopy | / Tvp | e: 📵 | ((|) At | seni | : () | Buffer | Canopy | / Tvo | e: ([|) (E |) Ab | sent | : O | Buffer | Canopy T | ype | : 🕼 | <u>(1)</u> | Abs | sent: | 0 |
| Plot 1 | | f Typ | $\overline{}$ | (| (| | Flag | Plot 2 | | | e: (| | - | | Flag | Plot 3 | Leaf T | - | - | <u>Ö</u> | | | Flag |
| Big Trees (> | 0.3m DBH) | 0 | 0 | | 0 | 0 | | Big Trees (| >0.3m DBH) | 0 | 0 | 0 | | 0 | | Big Trees | (>0.3m DBH) | <u> </u> | 0 | 2 | <u> </u> | | |
| mall Trees (< | 0.3m DBH) | 0 | 0 | 0 | 0 | 0 | | Small Trees (| <0.3m DBH) | 0 | 0 | 0 | | 0 | | Small Trees | (<0.3m DBH) | O | 0 | | 0 | 0 | |
| Woody Shrubs | , Saplings 5m HIGH) | 0 | 0 | | 0 | 0 | | Woody Shrub | s, Saplings 1-5m HIGH) | 0 | 0 | 3 | 0 | 0 | | | ibs, Saplings im-5m HIGH) | | 0 | 0 | <u> </u> | <u> </u> | |
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| | orbs and | 0 | Ō | | 0 | 0 | | | Forbs and | Ō | Ō | | Ō | Ō | | | Farba and | <u> </u> | (| 0 | ol | 0 | |
| Bare | Grasses ground | | 0 | 0 | Ö | 0 | | Bare | Grasses ground | | Ŏ | 0 | <u></u> | ŏ | | Bar | 0,0000 | 0 | | <u></u> | <u>o</u> l | Ŏ | |
| | ter, duff | 0 | $\overline{0}$ | 0 | 0 | | | | tter, duff | 0 | ō | 0 | <u>(a)</u> | ŏ | | | | <u></u> | - + | - + | 0 | ŏ | |
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| Sı | Water | 9 | 0 | 0 | 0 | 0 | | s | Water | | 0 | 0 | 의 | 의 | | | | | $\stackrel{\sim}{\Rightarrow}$ | - | 처 | = | |
| Submerged Vegetation O O O O O Submerged Vegetation O O O O O O O O O O O O O O O O O O O | | | | | | | | | | | | | | | | | | | | | | | |
| Vegetation Vegetation Vegetation Vegetation | | | | | | | | | | | | | | | | | | | | | | | |
| Residential and Urban Stressors Hydrology Stressors | | | | | | | | | | | | | | | | | | - | | | | | |
| Fili bubbie | e If prese | ent - l | Piot | 1 | 2 | 3 | Flag | Fili bubbi | e if prese | ent - | Piot | 1 | 2 | 3 | Flag | Fill bubble | e If present | - PI | ot | 1 | 2 | 3 | Flag |
| Road - gra | avel | | | 0 | 0 | 0 | | Ditches, C | | | | 10 | 0 | 0 | | Pasture/Ha | зу | - | - | 의 | 의 | 의 | |
| Road - twe | o lane | ill b | | 0 | 0 | 0 | | Dike/Dam (IMPEDE FLO | OW) | | | 0 | 0 | 0 | | Range | | | | 의 | 의 | 0 | |
| Road - fou | ur lane | | 157 | 0 | 0 | 0 | <u></u> | Water Lev | rel Contro | ol Stn | ucture | +- | 0 | 0 | | Row Crops | | -0 | 10 | 0 | 의 | 의 | |
| Parking L | ot/Paven | nent | 2 | 0 | 0 | 0 | | Excavation | n, Dredgi | ng | | 10 | 0 | 0 | | ROW CROP FIEL | d (RECENT-RI D) d (OLD - GRAS | 100 | 10 | 0 | 의 | 의 | |
| Golf Cour | se | | 1731 | 0 | 0 | 0 | | Fill/Spoil B | | n - 41- | | 10 | 0 | 0 | | SHRUBS TRE | | 33, | | 9 | 0 | 0 | ` ' |
| Lawn/Parl | k | | 1 | 0 | 0 | 0 | <u> </u> | Freshly D | TED) | | MA | 0 | 0 | 0 | | Nursery | mer (Va) | | | 0 | 9 | 0 | |
| Suburban | Resider | ntial | | 0 | 0 | 0 | | Soil Loss/ | Root Exp | osure | e | 0 | 0 | 0 | | Dairy | | | _ | 의 | 의 | 9 | |
| Urban/Mu | ltifamily | | | 0 | 0 | 0 | | Wall/Ripra | ар | | | 10 | 0 | 0 | - | Orchard | | 2 | - | 이 | 이 | 0 | |
| Landfill | | | | 0 | 0 | 0 | | Inlets, Ou | | | | 0 | 0 | 0 | | | Animal Feed | ling | | 이 | 이 | 9 | |
| Dumping | | | | 0 | 0 | 0 | <u> </u> | Point Sou (EFFLUENT | OR STORM | WATE | R) | 0 | 0 | 0 | | Rural Resi | | - | | 의 | 0 | 0 | |
| Trash | | | | 0 | 0 | © | | (SHEETFLO | | inpu | | 0 | 0 | 0 | | Gravel Pit | | | | 0 | 0 | 0 | |
| Other: | | | | 0 | 0 | 0 | | Other: | | | | 0 | 0 | 0 | | Irrigation | | | | 의 | 이 | 0 | |
| Other: | | | | 0 | 0 | 0 | | Other: | | | | 0 | 0 | 0 | | Other: | | | _ | 0 | 이 | 0 | |
| Indu | strial D | evel | opm | ent : | Stres | ssor | s | | | | | | Habit | tat/V | egeta | tion Stres | sors | | | | | | |
| Fiii bubbi | e If pres | ent - | Plot | 1 | 2 | 3 | Fiag | Fiii bubble | e if prese | nt - | Piot | 1 | 2 | 3 | Fiag | Fill bubb | ole if prese | nt - F | Piot | 1 | 2 | 3 | Fiag |
| Oil Drilling | | | | 0 | 0 | 0 | | Forest Clea | ar Cut | 11 | | 0 | 0 | 0 | , | Herbicide (| Jse | 1 | | 0 | 0 | 0 | |
| Gas Wells | S | | | 0 | 0 | 0 | | Forest Sele | ective Cut | l | | 0 | 0 | 0 | | Mowing/Sh | rub Cutting | | | 0 | 0 | 0 | |
| Mine (sur | face) | | | 0 | 0 | 0 | | Tree Planta | ation | | | 0 | 0 | 0 | | Trails | | | | 0 | 0 | 0 | |
| Mine (und | lerground | d) | | 0 | 0 | 0 | | Tree Cano | py Herbiv | ory | H | 0 | 0 | 0 | | Soil Compa | | W. | | 0 | 0 | 0 | |
| Military | | . 1 | | 0 | 0 | 0 | | Shrub Laye | er Browse | d | Juri | (3) | 0 | 0 | | | hicle damag | je | | 0 | 0 | 0 | |
| Other: | | | | 0 | 0 | 0 | | Highly Gra | zed Gras | ses | | 0 | 0 | 0 | | Soil erosion | n (FROM WINE |), WA | TER, | 0 | 0 | 0 | |
| Other: | | | | 0 | 0 | 0 | | Recently 8 | urned Fo | rest | | 0 | 0 | 0 | | Other: | | | | 0 | 0 | 0 | |
| Other: | | (0)-c | | 0 | 0 | 0 | | Recently B | urned Gr | assla | ind | 0 | 0 | 0 | | Other: | | | _ | 0 | 0 | 0 | |
| | lag codes | : K= | No m | _ | | mad | e, U = 5 | (BLACKENED | surement., | F1,F | 2, etc | . = mk | c. flag | s ass | Igned b | y each field c | | | L 2428 | | | - | |
| | Buffer Sa | | | | | Exc | lain all | flags in com | ment secti | on on | the b | ack of | this fo | orm | | 15-7-95 | | | _ 120 | | | 1 | |

| FC |)RM | l B- | 1: E | 3UFF | ER SAMPLE PLOTS - | TAF | ₹GE | TE |) ALI | EN SPECIES (Back) Reviewed by | y (initla | il): | | |
|-------------------------------|---------|--------|-------|------------|-------------------------------|---------|-------|--------|---------|--------------------------------|-----------|------|--------|--------|
| Site ID: | PC | AP | , 2 | c 3 | 3428 | DAT | E: _ | 0.0 | _/_ | 25/2013 | | | | |
| @ Confirm | a fiile | ed da | ata b | ubbie i | ndicates presence and an unf | iiied i | bubb | le inc | licates | absence by filling in this bub | ble | | | 2 |
| Fill bubble if present - Plot | 1 | 2 | 3 | Flag | Fili bubble if present - Piot | 1 | 2 | 3 | Flag | Fill bubble if present - Plot | 1 | 2 | 3 | Fiag |
| Eurasian Watermilfoil | 0 | 0 | 0 | | Purple Loosestrife | 0 | 0 | 0 | | Johnson Grass | 0 | 0 | 0 | |
| Water hyacinth | 0 | 0 | 0 | | Knotweed | 0 | 0 | 0 | | Kudzu | 0 | 0 | 0 | |
| Yellow Floating Heart | 0 | 0 | 0 | | Japanese Knotweed | 0 | 0 | 0 | | Multiflora Rose | 0 | 0 | 0 | |
| Glant Salvinia | 0 | 0 | 0 | | Perennial Pepperweed | 0 | 0 | 0 | | Common Buckthorn | 0 | 0 | 0 | |
| Garlic Mustard | 0 | 0 | 0 | | Giant Reed | 0 | 0 | 0 | | Himalayan Blackberry | 0 | 0 | 0 | |
| Poison Hemlock | 0 | 0 | 0 | | Cheatgrass | 0 | 0 | 0 | | Tamarisk | 0 | 0 | 0 | |
| Mile-A-Minute Weed | 0 | 0 | 0 | | Reed Canary Grass | 0 | 0 | 0 | | Other: | 0 | 0 | 0 | |
| Birdsfoot Trefoil | 0 | 0 | 0 | | Common Reed | 0 | 0 | 0 | | Other: | 0 | 0 | 0 | |
| Canada Thistle | 0 | 0 | 0 | | Leafy Spurge | 0 | 0 | 0 | | Other: | 0 | 0 | 0 | |
| | | | | | | | | | | Other: | 0 | 0 | o | |
| | | | 246 | | PLOT COORE | DINA | TES | | V. | | | | | |
| O AA CENTER | W E | 0 s: | | O E3 | 1.1.6.0.9. | Lon | gitud | de W | | and comment below) | 2 | | | |
| | | | | | Use Decimal Degr | ees; | NAD | 83 | | | | | | 181 |
| Flag Comments | | | | | | | | | | | | | | 1000 |
| | | 7-88 | | | | | | | | 1) | | | | |
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| Buffer Sample Po | ints - | - Targ | geted | Alien S | Species 05/27/2011 | | | | | 796 | 6623 | 3548 | 3 | |

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|--|-------------------------------|------------------|-------------------|---------|-------------------|------------|----------------------|-------------------------|----------------------|----------|----------|------------|----------|------------|---------|--------------------------------|--|-----------|-------------------|----------|----------|---------|
| • | | | | | | JHS. | | RM B-1: | BUFF | ER | SAN | /PL | E PL | | | | | riewed by | | | -(| |
| Site I | D: <u>b</u> | CA | P | SC | - 3 | 42 | 28 | | | | | | | | DATE | 06 | 2.5 | 12 | 0 | 1. | 3, | |
| Locatio | | | | Tell. | | | Mik | | C TOPING | | | | | | | | sampled | and f | ag - | → | | |
| OAAC | enter | 0 | N | 0 | S | © E | . 0 | W | O P Buffer | | | | Plot 2 | - | | lot 3 | | | 1.0 | | | illino. |
| Fill in bubble Strata Section | s for all th on: Fill in a | at app ipprop | ly: Ca riate c | nopy 1 | Type: I lass b | D = D | eciduous for each | · F = Evenn | en Leaf T | voe: B | = Bro | adleaf | N = N | leedle | Leaf. A | bsent: No tree derate(10-40 | e canopy. %); 3 = Heavy | (40-75%) | ; 4 = V | ery He | avy (> | 75%) |
| Buffer | Сапору | / Тур | e: 🔞 |) (|) Ab | sent | : O | Buffer | Canopy | / Тур | e: 섙 |) (|) Ab | sent | : O | Buffer | Canopy T | ype: 餐 | 0 | Ab | sent: | 0 |
| Plot 1 | Leaf | f Тур | e: 🥑 | \odot | | | Flag | Plot 2 | Lea | f Тур | e: 🙋 |) (C | | | Flag | Plot 3 | Leaf T | ype: @ | Y <u>⊙</u> | <u></u> | | Flag |
| Big Trees (> | 0.3m DBH) | 0 | 0 | 0 | | \odot | | Big Trees (| >0.3m DBH) | 0 | 0 | 0 | 0 | <u> </u> | | Big Trees | (>0.3m DBH) | 00 | (7) | 의 | <u> </u> | |
| mall Trees (< | 0.3m DBH) | 0 | \odot | 0 | | \odot | | Small Trees (| | 0 | 0 | (2) | 0 | <u> </u> | | Small Trees | | 00 | 0 | 9 | <u> </u> | |
| Woody Shrubs (0.5m- | , Saplings 5m HIGH) | | 0 | | 0 | 0 | | | n-5m HIGH) | 0 | 0 | (| 0 | <u> </u> | | (0.5 | | <u> </u> | (9) | <u> </u> | <u> </u> | |
| | 5m HIGH) | 0 | 0 | 0 | 0 | 0 | | |).5m HIGH) | 0 | 2 | 0 | <u> </u> | <u>O</u> | | (• | 10.011111011) | <u> </u> | (| 0 | <u> </u> | |
| Herbs, F | orbs and Grasses | 0 | 0 | | 0 | 0 | | Herbs, | Forbs and Grasses | 0 | | (| 0 | <u> </u> | | Herbs | Forbs and Grasses | <u> </u> | (2) | 0 | <u> </u> | |
| Bare | ground | O | 0 | 0 | 0 | 0 | | Bar | ground | (| 0 | 0 | 0 | <u>⊙</u> | | Bai | re ground | | 0 | 의 | <u> </u> | |
| Lit | ter, duff | 0 | 0 | 0 | | 0 | | Łi | tter, duff | 0 | 0 | 0 | | <u>⊙</u> | | L. | itter, duff | <u> </u> | 0 | (| <u> </u> | |
| | Rock | | 0 | 0 | 0 | 0 | | | Rock | (| 0 | 0 | 0 | <u>O</u> | | | Rock (| | 0 | <u> </u> | <u> </u> | |
| | Water | | 0 | 0 | 0 | 0 | | | Water | @ | 0 | 0 | 0 | <u>O</u> | | | | | 0 | 0 | <u> </u> | |
| V | | | 0 | 0 | 0 | 0 | | | | 0 | 0 | 0 | <u> </u> | \odot | | | Submerged Vegetation | | 0 | 0 | <u> </u> | |
| Vegetation | | | | | | | | | | | | | | | s bub | ble. (| 7 | | | | | |
| Stressor Presence/Absence - Confirm that a filled data bubble indicates presence and an unfilled bubble indicates absence by filling this Residential and Urban Stressors Hydrology Stressors Agricultural & Rural Str | | | | | | | | | | | | | | | tres | - | | | | | | |
| Fill bubble if present - Plot 1 2 3 Flag Fill bubble if present - Plot 1 2 3 Fiag Fill bubble if present - Plot 1 | | | | | | | | | | | | | | | 1 | 2 | 3 | Flag | | | | |
| Road - gra | avel | | | 0 | 0 | 0 | | Ditches, C | | _ | | 0 | 0 | 0 | | Pasture/Ha | ay | | 0 | 이 | 0 | |
| Road - tw | o lane | | | 0 | 0 | 0 | | Dike/Dam (IMPEDE FLO | | R Bed | | 0 | 0 | 0 | | Range | | | 0 | 0 | 0 | |
| Road - for | ur lane | | No file | 0 | 0 | 0 | | Water Lev | | _ | cture | - | 0 | 0 | | Row Crops | | | 0 | 0 | 0 | |
| Parking L | ot/Paven | nent | | 0 | 0 | 0 | | Excavatio | n, Dredgii | ng | | 0 | 0 | 0 | | ROW CROP FIE | ld (RECENT-RE LD) ld (OLD - GRAS | 9.8 | 0 | 9 | 0 | - |
| Golf Cour | se | | | 0 | 0 | 0 | | Fill/Spoil 6 | | Podin | oot | 0 | 0 | 0 | | SHRUBS, TRI | | 3, | 0 | 9 | 0 | |
| Lawn/Par | | | | 0 | 0 | 0 | | (UNVEGETA | TED) | | | 0 | 0 | 0 | | Nursery | | 700 | 0 | | 0 | |
| Suburban | | ntial | | 10 | 0 | 0 | | Soil Loss/ | | osure | | 0 | 0 | 0 | | Orchard | | | 0 | 읭 | 응 | |
| Urban/Mu | ltifamily | | | 0 | 0 | 0 | | Wall/Ripra | | | | +- | 0 | 00 | | - | Animal Feedi | 00 | 0 | ö | 허 | |
| Landfill | | | | 0 | 0 | 0 | | Inlets, Ou Point Sou | rce/Pipe | | | 0 | 0 | 0 | | Rural Resi | | ng | 0 | ö | ö | |
| Dumping | | 3 | | 0 | 0 | 0 | | (EFFLUENT Imperviou | s surface | | | 0 | 0 | 0 | (0 | Gravel Pit | | 15 13 | 0 | 0 | 0 | |
| Trash Other: | | - | | 0 | 0 | 0 | - | Other: | | | | 0 | 0 | 0 | | Irrigation | | | ŏ | 0 | Ö | |
| Other: | | | | 0 | 0 | 0 | | Other: | | | - | 0 | 0 | 0 | | | | | 0 | o | 0 | |
| | strial D | evel | opm | _ | _ | - | s | | | - | | | - | | egeta | tion Stres | 9 | | | | | |
| Fiii bubbl | e if pres | ent - | Piot | 1 | 2 | 3 | Flag | FIII bubbi | e If prese | nt - I | Piot | 1 | 2 | 3 | Flag | Fiii bubb | ole if presen | t - Plot | 1 | 2 | 3 | Flag |
| Oil Drilling | 9 | | | 0 | 0 | 0 | | Forest Cle | ar Cut | | | 0 | 0 | 0 | | Herbicide (| Jse | | 0 | 0 | 0 | |
| Gas Well | s | | | 0 | 0 | 0 | | Forest Sei | ective Cut | 1 | | 0 | 0 | 0 | | Mowing/Sh | rub Cutting | | 0 | 0 | 0 | |
| Mine (sur | face) | | | 0 | 0 | 0 | | Tree Plant | ation | | | 0 | 0 | 0 | | Trails | | | 0 | 0 | 0 | |
| Mine (und | dergroun | d) | go b | 0 | 0 | 0 | | Tree Cano | py Herbiv | ory | | 0 | 0 | 0 | | Soil Compa | action (UMAN) | | 0 | 0 | 0 | |
| Military | | | | 0 | 0 | 0 | | Shrub Lay | | ed | mil! | 0 | 0 | (a) | | Offroad vel | hicle damage | 9 | 0 | 0 | 0 | |
| Other: | | | | 0 | 0 | 0 | | Highly Gra | zed Grass | ses | | 0 | 0 | 0 | | Soil erosion | n (FROM WIND, | WATER, | 0 | 0 | 0 | |
| Other: | | | | 0 | 0 | 0 | | Recently E | | rest | | 0 | 0 | 0 | | Other: | | | 0 | 0 | 0 | |
| Other: | 22-512- | | | 0 | 0 | 0 | | Recently E | | assla | nd | 0 | 0 | 0 | | Other: | 11 | | 0 | 0 | 0 | |
| Control of the Contro | lag codes | s: K = | No m | _ | | t mad | e, U = 5 | Suspect mea | surement., | F1,F | 2, etc | = mis | c. flag | s ass | igned b | y each field o | rew. | 242 | 816 | | | |
| | Buffer Sa | | | | | Ext | ila niak | flags in com | ment section | on on | the b | ack of | this fo | orm | | | | 272 | 0100 | | | |

| Plot 1 | 2 O O | 3 O | dicates | absence by filling in this bub Fill bubble if present - Plot Johnson Grass Kudzu | , | 2 | 3 | |
|--------|---|---------------------------------------|---------------------------------------|--|---|--|---|--|
| Plot 1 | 2 0 0 0 0 | 3 O O | | Fill bubble if present - Plot Johnson Grass | 1 | - | \vdash | |
| | 0 0 | 0 | Flag | Johnson Grass | - | - | \vdash | |
| | 0 | 0 | | | 0 | | | Flag |
| 0 | 0 | - | | Kudzu | | 0 | 101 | |
| C | - | 0 | _ | TOUZU | 0 | 0 | 0 | |
| C | 0 | | | Multiflora Rose | 0 | 0 | 0 | |
| 3 | | 0 | | Common Buckthorn | 0 | 0 | 0 | |
| | 0 | 0 | | Himalayan Blackberry | 0 | 0 | 0 | - |
| | 0 | 0 | | Tamarisk | | | - | _ |
| C | 0 | 0 | | Other: | | - | _ | _ |
| C | 0 | 0 | | Other: | | _ | | |
| C | 0 | 0 | | Other: | 300 | | _ | |
| | | | | Other: | | | | |
| ORDIN | ATES | 3 | | | | | | |
| Lo | ngitud | de W | | | 6 | | | |
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| * 1 | <u> </u> | er . | | | | | | |
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| | | | | | | | 37-79- | |
| | | | | 7966 | 623 | 548 | | |
| | ORDIN each Bul icable location ent section last accompactica Loo Degrees | O O O O O O O O O O O O O O O O O O O | O O O O O O O O O O O O O O O O O O O | OOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO | O O O O Other: O O O O Other: O O O O Other: Other: Other: ORDINATES each Buffer Transect and for the Buffer Plot at the AA CENtracticable location ALONG THE TRANSECT. This is important the elocation of the transect. Fill in the "nearest practicable location below. The coordinates of the nearest practicable location below. The coordinates of the nearest practicable location (flag and comment below) Longitude West 8.1.4.5.7.1. Degrees; NAD83 | O O O O Other: O OTHE | O O O O Other: O O O Other: O O O Other: O O O Other: O O O O Other: O O O O O OTHER: O O O O O O OTHER: O O O O O O O O O O O O O O O O O O O | O O O O Other: O O O O O O OTHER: O O O O O O OTHER: O O O O O O O O O O O O O O O O O O O |

| | | | | | 12 | | FOF | RM B-1: | BUFF | ER | SAI | MPL | E PI | LOT | S (Fi | ont) | Re | viewed by | (initlai) | - | - (| |
|--|--------------------------------|-------------------|---------------------|---------------|------------------|--------------------|---------------------|------------------------------------|--|---------|-------------|--------|----------|---------------------------|-----------|-------------------------------|------------------------------|------------|-----------|--------------------------|---------|------|
| Site I | D: | PC | AP | 5 | (| - | 342 | 8 | | | | | | N. | DATE | 06 | 1 2.6 | 19 | O. | 1.3 | 3_ | |
| Location | on: | 111- | | | | | | | Fill | in b | ubb | | | | | ld not be | sample | d and f | ag - | → | | |
| OAAC | Center | 0 | N | 0 | S | OE | 0 | W | | lot ' | | | Plot | | | lot 3 | | | | | | |
| Fiil in bubble Strata Section | es for all th on: Fill in a | nat app approp | oly. Ca oriate d | anopy cover o | Type: class b | D = D oubble | eciduou for eacl | s; E = Evergre n strata type fo | Buffer en, Leaf T or each plo | voe: E | 3 = Br | oadlea | f: N = I | Needi | e Leaf. A | bsent: No tre derate(10-40 | e canopy. %); 3 = Heavy | / (40-75%) | ; 4 = V | ery He | eavy (> | 75%) |
| Buffer | Canop | у Тур | e: (| 0 |) At | sen | t: O | Buffer | Canop | у Тур | e: (|) (|) At | sent | : O | Buffer | Canopy 1 | Гуре: 🍏 | 1 | Ab | sent: | 0 |
| Plot 1 | Lea | f Typ | e: 🌘 |) (e | | | Flag | Plot 2 | Lea | f Typ | e: (|) (| | | Flag | Plot 3 | Leaf 1 | Гуре: 🌘 |) 🛈 | | | Flag |
| Big Trees (> | 0.3m DBH) | 0 | 0 | 0 | | 0 | | Big Trees (> | 0.3m DBH) | 0 | 0 | | 0 | 0 | | Big Trees | (>0.3m DBH) | | 2 | 0 | 0 | |
| Small Trees (< | :0.3m DBH) | 0 | 0 | 0 | | 0 | | Small Trees (| <0.3m DBH | 0 | 0 | 0 | 0 | | | Small Trees | (<0.3m DBH) | <u> </u> | 0 | 0 | | |
| Woody Shrubs | s, Saplings 5m HIGH) | 0 | O | 0 | 0 | 0 | | Woody Shrub | s, Saplings +5m HIGH) | 0 | 0 | 0 | 0 | 0 | | | ubs, Sapiings im-5m HIGH) | | 0 | 0 | 0 | |
| Woody Shrubs | <u> </u> | 6 | | 0 | 0 | 0 | | Woody Shrub | | Ō | Ō | | 0 | Ö | | Woody Shru | ibs, Saplings <0.5m HIGH) | 0 0 | 0 | 0 | 0 | |
| | orbs and | 0 | Ō | 0 | | $\overline{\odot}$ | | | orbs and | 0 | Ō | | Ō | $\overline{\odot}$ | | <u>`</u> | Forbs and Grasses | 00 | | 0 | 0 | |
| Bare | Grasses ground | Ö | <u></u> | 0 | Ō | 0 | | Bare | Grasses ground | Ö | | 0 | ŏ | $\overset{\smile}{\odot}$ | | Bai | re ground | | 0 | 0 | ŏ | |
| | ter, duff | 0 | 0 | 0 | 0 | | | | tter, duff | 0 | | 0 | <u></u> | $\frac{\circ}{\circ}$ | | | itter, duff | 00 | ŏ | <u></u> | 0 | |
| Lit | Rock | | | 0 | 0 | | | | Rock | | | 0 | 0 | <u> </u> | | | Rock | | 0 | 0 | <u></u> | |
| | | 3 | | - | _ | 0 | | | | - | | - | = | $\frac{\odot}{\odot}$ | | | Water | | 0 | $\overline{\rightarrow}$ | 8 | |
| Sı | Water | | 0 | 0 | 0 | 0 | | Sı | Water | | $ \Theta $ | 0 | 0 | $\frac{\odot}{\odot}$ | | | Submerged | | | 읭 | | |
| V | egetation | | \odot | 0 | 0 | $ \Theta $ | | ٧ | egetation/ | | 0 | 0 | 0 | <u></u> | | | Vegetation | | (O) | 0 | 0 | |
| Stressor Presence/Absence - Confirm that a filled data bubble indicates presence and an unfilled bubble indicates absence by filling this to Residential and Urban Stressors Hydrology Stressors Agricultural & Rural Stre | | | | | | | | | | | | | | | | | | | | | | |
| Resi | dential | and | Urb | an S | tress | sors | | | Hydrolo | gy S | itres | SOFS | | | 100 | | - 10 | | | | | |
| Fiii bubbie | if pres | ent - I | Piot | 1 | 2 | 3 | Fiag | Fili bubble | if pres | ent - | Plot | 1 | 2 | 3 | Flag | Fiii bubble | e if present | - Piot | | 2 | 3 | Flag |
| Road - gra | avel | | | 0 | 0 | 0 | | Ditches, C | | _ | | 0 | 0 | 0 | | Pasture/Ha | ау | | 0 | 0 | 의 | |
| Road - two | o lane | | | 0 | 0 | 0 | | Dike/Dam/ | W) | | | 0 | 0 | 0 | | Range | | | 0 | 0 | 이 | |
| Road - for | ur lane | | | 0 | 0 | 0 | | Water Lev | el Contro | ol Stru | uctur | 9 0 | 0 | 0 | | Row Crops | | | 0 | 0 | 0 | |
| Parking L | ot/Paven | nent | | 0 | 0 | 0 | | Excavation | n, Dredgi | ng | | 0 | 0 | 0 | | ROW CROP FIE | | | 0 | 0 | 이 | |
| Golf Cour | se | it i | | 0 | 0 | 0 | | Fill/Spoil B | 2 | | | 0 | 0 | 0 | | SHRUBS TR | ld (OLD - GRA EES) | SS, | 0 | 0 | 0 | |
| Lawn/Parl | k | | | 0 | 0 | 0 | | Freshly De (UNVEGETA) | | Sedir | nent | 0 | 0 | 0 | | Nursery | Popula | | 0 | 0 | 0 | |
| Suburban | Resider | ntial | 11.17 | 0 | 0 | 0 | | Soil Loss/ | Root Exp | osure | 9 | 0 | 0 | 0 | | Dairy | | | 0 | 0 | 0 | |
| Urban/Mu | Itifamily | | | 0 | 0 | 0 | L | Wall/Ripra | р | | | 0 | 0 | 0 | | Orchard | | | 0 | 0 | 의 | |
| Landfill | | | | 0 | 0 | 0 | | Inlets, Out | | K. A. | | 0 | 0 | 0 | | Confined A | Animal Feed | ling | 0 | 0 | 의 | |
| Dumping | | | | 0 | 0 | 0 | | Point Sour | OR STORM | WATE | R) | 0 | 0 | 0 | | Rural Resi | dential | | 0 | 0 | 의 | |
| Trash | | | | 0 | 0 | 0 | | Impervious (SHEETFLOV | | inpu | t | 0 | 0 | 0 | | Gravel Pit | | | 0 | 0 | 이 | |
| Other: | | | | 0 | 0 | 0 | | Other: | | | | .0 | 0 | 0 | | Irrigation | | | 0 | 0 | 0 | |
| Other: | | | | 0 | 0 | 0 | | Other: | | | | . 0 | 0 | 0 | | Other: | | | 0 | 0 | 0 | |
| Indu | strial D | evel | opm | ent : | Stres | ssor | s | | | | | | Habi | tat/V | egeta | tion Stres | sors | | | | | |
| Fiii bubble | e If pres | ent - | Piot | 1 | 2 | 3 | Flag | Fili bubble | if prese | nt - | Plot | 1 | 2 | 3 | Flag | Fiii bubt | ole if prese | nt - Plot | 1 | 2 | 3 | Fiag |
| Oil Drilling | | | | 0 | 0 | 0 | | Forest Clea | r Cut | | | 0 | 0 | 0 | | Herbicide (| Jse | | 0 | 0 | 0 | |
| Gas Wells | Oil Drilling OOO | | | | | | | | ctive Cu | t | | 0 | 0 | 0 | | Mowing/Sh | rub Cutting | | 0 | 0 | 0 | |
| Mine (surf | | | | | | | | | ition | | | 0 | 0 | 0 | | Trails | | | 6 | | 0 | 19 |
| Mine (surface) O O O Mine (underground) O O O | | | | | | | | Tree Canor | | ory | | 0 | 0 | 0 | | Soil Compa | | | 0 | 0 | 0 | |
| Military | | 5 5 | | 0 | 0 | 0 | | (INSECT) Shrub Laye | | ed | 71 | • | 0 | 0 | | | hicle damag | ie | 0 | 0 | ō | |
| | | | | + | - | | | (WILD OR DOI Highly Graz | ed Gras | ses | | + | 1 | 0 | | Soil erosion | n (FROMWING | | 0 | 0 | 0 | |
| Other: | | - | - | 0 | 0 | 0 | | Recently B | HIGH) | rest | - | 0 | 0 | _ | | OR OVERUSE |) | | _ | \vdash | - | |
| Other: | | 77.1 | | 0 | 0 | 0 | | Canopy Recently B | | | nd | 0 | 0 | 0 | | Other: | | | 0 | 0 | 0 | |
| Other: | | | | 0 | 0 | 0 | | (BLACKENED) | | | | 0 | 0 | 0 | | Other: | | - | 0 | 0 | 0 | 188 |
| | | | | | | Exo | lain ali | iuspect meas flags in comm | urement., nent secti | F1,F | 2, etc | ack of | this fe | js ass om | igned b | y each field o | rew. | 242 | 816 | 3304 | | |
| В | uffer Sa | mple | Plots | 05 | /27/ | | | | emile. | | | | | | | | | | - Ale | | | |

| • FO | RM | B-1 | 1: E | BUFF | ER SAMPLE PLOTS - | TAF | RGE | TE |) ALI | EN SPECIES (Back) Reviewed by | y (initla | 1): | | • |
|--|---------|-------|--------|--------------|------------------------------|-------|--------|---------------|---------------|---------------------------------|-----------|--------|-----|-------------|
| Site ID: | Po | Al | os | C 3 | 3428 | DAT | E: _(| 0 6 | _/ | 2612013 | | | | |
| O Confirm | a fille | d da | ıta bı | ubbie i | ndicates presence and an unf | illed | bubbl | le inc | ficates | absence by filling in this bub | bie | | | HER |
| Fill bubble if present - Plot 1 2 3 Flag Fill bubble if present - Plot | | | | | | 1 | 2 | 3 | Flag | g Flil bubble if present - Piot | | 2 | 3 | Flag |
| Eurasian Watermilfoil | 0 | 0 | 0 | | Purple Loosestrife | | 000 | | Johnson Grass | 0 | 0 | 0 | | |
| Water hyacinth | 0 | 0 | 0 | | Knotweed | 0 | 0 | 0 | | Kudzu | 0 | 0 | 0 | |
| Yellow Floating Heart | 0 | 0 | 0 | | Japanese Knotweed | 0 | 0 | 0 | | Multiflora Rose | 0 | 0 | 0 | |
| Giant Salvinia | 0 | 0 | 0 | | Perennial Pepperweed | 0 | 0 | 0 | | Common Buckthorn | 0 | 0 | 0 | |
| Garlic Mustard | 0 | 0 | 0 | | Giant Reed | 0 | 0 | 0 | | Himalayan Blackberry | 0 | 0 | 0 | |
| Poison Hemlock | | | | | | | 0 | 0 | | Tamarisk | 0 | 0 | 0 | |
| Mile-A-Minute Weed | 40 00 | | | | | | 0 | 0 | | Other: | 0 | 0 | 0 | |
| Birdsfoot Trefoil | 0 | 0 | 0 | | Common Reed | 0 | 0 | 0 | | Other: | 0 | 0 | 0 | V-20-000-00 |
| Canada Thistle | 0 | 0 | 0 | | Leafy Spurge | 0 | 0 | 0 | | Other: | 0 | 0 | 0 | |
| Other: | | | | | | | | | Other: | 0 | 0 | 0 | | |
| | | 1 | | W. | PLOT COORI | DINA | TES | 5 | | | | ., | | |
| Location of coordinate O AA CENTER O N | es (c | hoo: | se o | ne): O E3 | O W3 O Nearest pra | Lor | ble lo | ocatio | on (flag | and comment below) | .1. | [| Fla | ag |
| Flag Comments | | | | | | | | | | | | 3 1 | | |
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| Briste tra | | | | +7 | A .1 . S | | | | | | | | | |
| 2 Medsegark | 5 | PK | 6 # | R: Ke | trail in d | | | 555 A. | ***** | | | - | | |
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| | AUST | | | | | | | | | | | | | _ |
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| | | | | | at a a | | | | | | | | | |
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| | | | | | | | | | | | | | | |
| Buffer Sample P | oints | - Tar | gete | d Alien | Species 05/27/2011 | | | | | 796 | 662 | 354 | 8 | • |

| FORM B-1: BUFFER SAMPLE PLOTS (Front) Reviewed by (initial): | | | | | | | | | | | | | | | | | | | | | |
|---|------------------------|-------------------------|---------|-----------------------|----------|-------------------------------|------------|-----------------------------|-------------------------|------------|------------|-----------------------|----------|---------------------------|----------------|--|-----------------------|---------|----------|----------------|--------|
| Site ID: PCAP SC 3428 DATE: 06/26/2016 | | | | | | | | | | | | | | | | | | | | | |
| Location: Fill in bubble(s) if plot(s) could not be sampled and flag | | | | | | | | | | | | | | | | | | | | | |
| O AA Center O N O S O E O W O Plot 1 O Plot 2 O Plot 3 Buffer Natural Cover Strata | | | | | | | | | | | | | | | | | | | | | |
| Fill in bubbles for all that apply: Canopy Type: D = Deciduous; E = Evergreen. Leaf Type: B = Broadleaf; N = Needle Leaf. Absent: No tree canopy. Strata Section: Fill in appropriate cover class bubble for each strata type for each plot. 0 = Absent; 1 = Sparse(<10%); 2=Moderate(10-40%); 3 = Heavy (40-75%); 4 = Very Heavy (>75%) | | | | | | | | | | | | | | | | | | | | | |
| Buffer | Canopy | | |) (|) Al | bsen | t: O | Buffer | Canopy | у Тур | e: 🌘 |) (| | oseni | <u>: O</u> | Buffer |) (| _ | sent | : O | |
| Plot 1 | | f Type | e: 🤎 | | | $\overline{}$ | Flag | Plot 2 | L | f Typ | |) (· | | _ | Flag | Plot 3 | Leaf Type: | | | \overline{a} | Flag |
| Big Trees (> | | $\stackrel{\sim}{\sim}$ | | $\overline{\circ}$ | 0 | 0 | | Big Trees (> | | - | \odot | 9 | 0 | $\overline{\odot}$ | ļ | | (>0.3m DBH) | 0 | 0 | 0 | |
| mall Trees (< Woody Shrubs | | \odot | 0 | $\frac{\odot}{\odot}$ | (| 0 | | Small Trees (<0.3m DBH) | | 0 | (0) | $\frac{\odot}{\odot}$ | | Small Trees Woody Shri | the Cauthura C | 0 | 0 | 0 | | | |
| | 5m HIGH) | 0 | | 0 | 0 | 0 | | | n-5m HIGH) | | \odot | 0 | 9 | $\frac{\odot}{\odot}$ | | | im-5m HIGH) | | 9 | 0 | |
| (<0. | 5m HIGH) orbs and | 0 | | 0 | 0 | 0 | | (<0 | D.5m HIGH) Forbs and | 0 | 0 | (| 의 | $\frac{\odot}{\odot}$ | | . (< | (0.5m HIGH) | 0 | 9 | 0 | |
| | Grasses | 0 | 0 | | 0 | 0 | | | Grasses | | 0 | 0 | 9 | $\frac{\odot}{\odot}$ | | | Grasses O O | 0 | 0 | 0 | |
| | ground | | \odot | $\frac{\odot}{\odot}$ | 0 | 0 | | | ground | \vdash | 0 | 0 | 0 | $\frac{\odot}{\odot}$ | | | e ground 🕕 🐠 | 0 | 0 | 0 | |
| Litt | er, duff | 0 | 0 | 0 | | 0 | ŀ | Lif | tter, duff | 0 | 0 | 0 | 9 | <u>0</u> | | L | itter, duff 0 0 | 0 | 0 | 0 | |
| | Rock | 9 | 0 | 0 | 0 | 0 | | | Rock | (a) | 0 | 0 | <u> </u> | <u>0</u> | | | Rock 0 0 | 0 | 0 | 0 | |
| S., | Water | 0 | 0 | 0 | 0 | 0 | | | Water | (1) | 0 | 0 | 0 | <u>0</u> | | ļ | Water 🕡 🕦 | 0 | 0 | 0 | |
| | bmerged egetation | | 0 | <u> </u> | 0 | 0 | | <u> </u> | ubmerged /egetation | 1 | 0 | 0 | <u> </u> | <u>O</u> | l | | Submerged Vegetation | 0 | 0 | 0 | |
| Stress | or Pres | ence | e/Abs | send | e - (| Confi | rm that | a filled data | bubble in | ndica | tes pi | resen | ce an | d an | unfilled | bubble indic | cates absence by fill | ing thi | is but | ble. | 9 |
| Residential and Urban Stressors Hydrology Stressors Agricultural & Rural Stressors | | | | | | | | | | | | | | | | | | | | | |
| Fili bubble | if prese | ent - F | Piot | 1 | 2 | 3 | Flag | Fiii bubbie | a if prese | ent - F | Piot | 1 | 2 | 3 | Flag | Fill bubble | If present - Plot | 1 | 2 | 3. | Flag |
| Road - gra | Road - gravel | | 0 | 0 | 0 | | Ditches, C | | | | 0 | 0 | 0 | | Pasture/Ha | ny | 0 | 0 | 0 | | |
| Road - two | ane | | | 0 | 0 | 0 | | Dike/Dam/ (IMPEDE FLO | | Bea | | 0 | 0 | 0 | | Range | | 0 | 0 | 0 | |
| Road - four lane | | 0 | 0 | 0 | | Water Level Control Structure | | | | - | 0 | 0 | | Row Crops | | 0 | 0 | 0 | | | |
| Parking Lot/Pavement | | | 0 | 0 | 0 | | Excavation | | ng | | 0 | 0 | 0 | | ROW CROP FIEL | d (RECENT-RESTING D) d (OLD - GRASS, | 0 | 0 | 0 | | |
| Golf Cours | | 14,13 | | 0 | 0 | 0 | | Fill/Spoil B | | nibes | ent | 0 | 0 | 0 | | SHRUBS, TRE | | 0 | 0 | 0 | - |
| Lawn/Park | | | 15 A.V | 0 | 0 | 0 | | (UNVEGETAT | (ED) | | 1100 | 0 | 0 | 0 | | Nursery | palasinia menili | | 0 | 0 | |
| Suburban | 2 | tial | | 0 | 0 | 0 | | Soil Loss/F | · |)Sure | - | 은 | 0 | 0 | | Dairy | | 9 | | 0 | |
| Urban/Mul | tiramily | | | 0 | 0 | 0 | | Wall/Ripra | | Br | | 0 | 0 | 0 | | Orchard Confined A | nime! Fooding | 9 | 0 | 의 | |
| Landfill | | - | | 0 | 0 | 0 | | Inlets, Out | ce/Pipe | | | 0 | 00 | 00 | | Rural Resid | nimal Feeding | 9 | 0 | 읭 | |
| Dumping Trash | | | | 00 | 0 | 0 | | (EFFLUENT C | surface | Input |) | 00 | 00 | 0 | | Gravel Pit | 201001 | 0 | 0 | 尙 | - |
| Other: | | | | 0 | 0 | 0 | | Other: | _ | | | 6 | 0 | 0 | | Imgation | | 0 | 0 | 히 | |
| Other: | | | | 0 | 0 | 0 | | Other: | | | | 0 | 0 | 0 | | Other: | | Ö | 0 | 0 | |
| -2-3000 | strial De | evelo | pme | | _ | | 5 | | | | | - | | | egetat | tion Stress | ors | | <u> </u> | | |
| Fili bubble | if prese | ent - F | Piot | 1 | 2 | 3 | Fiag | Fiii bubbie | if preser | nt - F | Plot | 1 | 2 | 3 | Flag | Fiii bubb | le if present - Plot | 1 | 2 | 3 | Fiag |
| Oil Drilling | 120 | | | 0 | 0 | 0 | | Forest Clea | r Cut | | | 0 | 0 | 0 | | Herbicide U | se | 0 | 0 | 0 | |
| Gas Wells | Jan 1 | | | 0 | 0 | 0 | | Forest Sele | ctive Cut | 130 | | 0 | 0 | 0 | | Mowing/Shr | rub Cutting | 0 | 0 | 0 | |
| Mine (surfa | ace) | | TX to | 0 | 0 | 0 | | Tree Planta | tion | And | | 0 | 0 | 0 | | Trails | | 0 | 0 | 0 | |
| Mine (unde | erground |) | | 0 | 0 | 0 | | Tree Canop | y Herbivo | ory | | 0 | 0 | 0 | | Soil Compa | ction | 0 | 0 | 0 | |
| Military | | | 18 0 | 0 | 0 | 0 | | Shrub Layer | r Browsed | d | | 0 | 0 | (a) | | | icle damage | 0 | 0 | 0 | |
| Other: | | 77 | | 0 | 0 | 0 | | Highly Graz | ed Grass | ies | | 0 | 0 | 0 | | Soil erosion | (FROM WIND, WATER, | 0 | 0 | 0 | |
| Other: | | | | 0 | 0 | 0 | | Recently Bu | | est | | 0 | 0 | 0 | | OR OVERUSE) Other: | | 0 | 0 | 0 | |
| Other: | | | - | 0 | 0 | 0 | | Canopy Recently Bu | ırned Gra | ısslar | id | 0 | 0 | 0 | | Other: | | 0 | 0 | 0 | \neg |
| | a codes: | K = N | o mea | asure | _ | _ | | (BLACKENED) uspect measu | | F1.F2 | etc. | | | | | | 'ew. 0.40 | 0 | | _ | |
| 0.100 | offer Com | | | | | Expl | | lags in comm | | | | | | | | | 242 | 8168 | 3304 | | |



| • FC | ORM | B-1 | 1: E | BUFF | ER SAMPLE PLOTS - | TAF | RGE | TEI | D ALI | EN SPECIES (Back) Reviewed by | y (initia | 1): | | • |
|---|------------------------------------|-----------------------|----------|---------|-------------------------------|-----------|-------------|----------|-------------------------------|--------------------------------|-----------|-----|------|---|
| Site ID: | PC | AP | 50 | 3 | 428 | DAT | E: _ | <u> </u> | ا ا | 26126.13 | | To | | |
| © Confirm | a fiile | ed da | ita bi | ubble l | ndicates presence and an unf | ilied | bubbl | le inc | dicates | absence by filling in this bub | bie | | | |
| Fill bubble if present - Plot | | | | | Fili bubble if present - Piot | 1 2 3 Fia | | Fiag | Fili bubble if present - Plot | 1 | 2 | 3 | Flag | |
| Eurasian Watermilfoil | stermilfoil O O Purple Loosestrife | | | | Purple Loosestrife | 0 | 0 | 0 | | Johnson Grass | 0 | 0 | 0 | |
| Water hyacinth | O O O Knotweed | | | | Knotweed | 0 | 0 | 0 | | Kudzu | 0 | 0 | 0 | |
| Yellow Floating Heart | 0 | O O Japanese Knotweed | | | Japanese Knotweed | 0 | 0 | 0 | | Multiflora Rose | 0 | 0 | 0 | |
| Giant Salvinia | O O Perennial Pepperweed | | | | 0 | 0 | 0 | | Common Buckthorn | 0 | 0 | 0 | | |
| Garlic Mustard | arlic Mustard O O O Giant Reed | | | | | | | 0 | | Himalayan Blackberry O | | | 0 | |
| Poison Hemlock | 0 | 0 | 0 | | Cheatgrass | 0 | 0 | 0 | | Tamarisk | 0 | 0 | 0 | |
| Mile-A-Minute Weed | 0 | 0 | 0 | | Reed Canary Grass | 0 | 0 | 0 | | Other: | 0 | 0 | 0 | |
| Birdsfoot Trefoil | 0 | 0 | 0 | | Common Reed | 0 | 0 | 0 | | Other: | 0 | 0 | o | |
| Canada Thistle | 0 | 0 | 0 | | Leafy Spurge | 0 | 0 | 0 | | Other: | 0 | 0 | 0 | |
| | | | | | | | | | | Other: | 0 | 0 | Ö | _ |
| | Tr. | | | | PLOT COORE | DINA | TES | | | | | | | |
| Location of coordinate O AA CENTER O No | 3 (| O 83 | 3 (| O E3 | | Lon | gitud | le W | | and comment below) | 1. | | Fla | g |
| Flag Comments | | | | | | | | - | | | | | - | |
| | , , | n/n / | 10- | 4. | ends at W3. | | | | | | | | | |
| - Inchiopark | 1 | je o j | <u>u</u> | 4 1 | mus wor ws. | | | | | | <u>_</u> | | | |
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| MATERIAL PROPERTY. | | | | | | | | | | | | | | |
| Buffer Sample Po | ints - | Targo | eted | Alien S | pecies 05/27/2011 | | | | | 7966 | 623 | 548 | | |