| | ROPARKS Plant Community Asses PCAP | sment Program: (| Quality Co | ntrol FormDate Sampled: | | Lead: LANCE |
|-------------------------|---------------------------------------|----------------------------|---------------|-------------------------|-----------------|-------------------|
| Project Label: | FCAF | | 1001 | | | |
| | | | | Comment requir | red if item ans | wer is NO |
| Parking/Access outside | e of Park Boundaries: | Y(N) | If yes, wri | te details in Comn | | |
| Field journals complete | | Y N | | | | - |
| Site sketch made on 1: | | Y) N | | | | |
| Check cover page | X-axis Bearing of plot recorded | Y N | | | | |
| | GPS coords. Recorded | N | | | | , |
| | North direction recorded | N W | | | | |
| | Photographs taken? | N N | | | | |
| Plot No., Date agreeme | ent on all pages? | A N | | | | |
| Header data completed | | N | | | | <u> </u> |
| | in all Intensive modules | N (X | | | | |
| Browse Level By Spec | cies | N (See | | | | |
| Woody stem quality co | | N | | | | |
| Invasive plant quality | | Y N | | | | |
| Ash trees mapped | | Y N | NONE | IN INTEN | SIVES | |
| Cover by Strata? (conf | firm cover type) | y N | | | | |
| Soil samples collected | | (Y) N | | | | |
| | atasheet with initials and number | X N | | | | · |
| Vouchers labeled on c | | (X) N | | | | |
| Pink flags removed | | N (See | | | | |
| Data sheet QA before | leaving site? | N | | | | |
| Common equipment re | | Y N | | | W-24-24 | |
| Data sheets scanned? | | 4/2/13 | Enter date | e to left BB | | |
| Final data sheets scan | ned? | | Enter date | to left | | |
| Buffer Widths measur | ed? | (Y) N | BB | 6-28-1 | 3 | ļs. |
| Web Soil Survey | | (Y) N | BB | 8/2/13 | | |
| Voucher Location | Refrigerator | YN | | | | |
| (# vouchers collected) | Press (#) | | Enter nun | nber to left | | |
| AC1 | Drier | Y N | <u> </u> | | | |
| 7100 | Identified | Y N | | | | |
| 106 | Mounted | Y N | | * | | |
| 124 | Thrown away | Y N | | | | |
| / | | | | | | |
| GRTS point verifica | tion: Is plot sampleable? | | | | | |
| Yes | Original GRTS point is sampleable | | | | | |
| □ No | Original GRTS point lands in a non | -sampleable area (| fill in categ | ory below) | | |
| 3.10 | ☐ Point falls in a water (i.e. river. | | | | | |
| | Managed mowed area (i.e. gold | f course, picnic area, rig | tht-of-way) | | | |
| | Paved area (i.e. parkinglot, road) | | | | | |
| | ☐ Unsafe to sample (i.e. steep slop | (c) | | | | |
| Additional Commen | 7-91-90 | | | | 6.00000 mag | |
| Additional Commen | 1909 | | | | | |
| 1 | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | rol 2011 xls last revised 6/20/2011 | | 22.30 | | D | langement Form Nf |

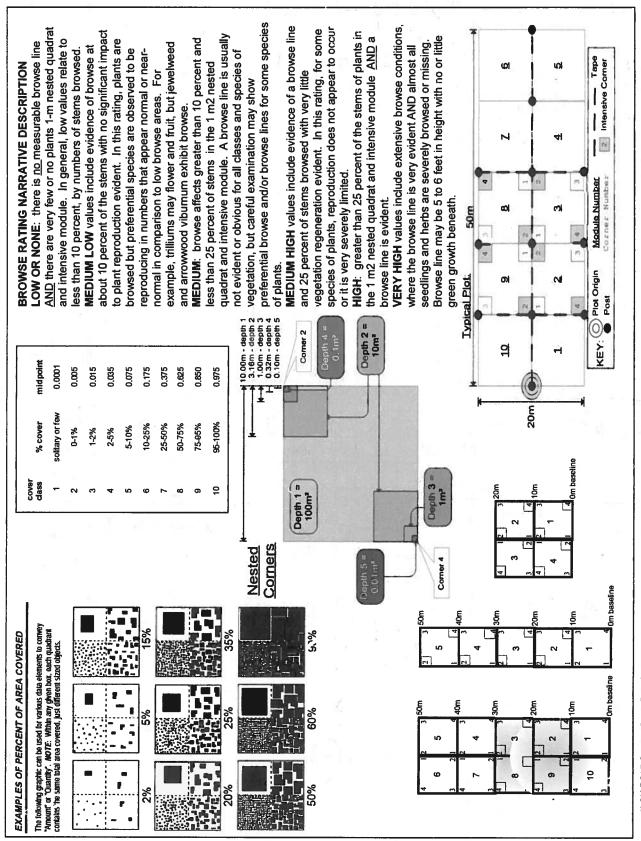
| CLEVELAND METROPARKS Plant Community Assessment Program - Background Data Sheet | mmunity Assessment Program - | · Background Data Sheet | | (|
|---|--|----------------------------------|---|-------------|
| Project Label: | I: PCAP P | Project Name: 01 HL 2613 | Plot No.: 1357 | Page 2 of 2 |
| MODIFIED NATURESERVE CLASS* | | DISTURBANCES | | |
| CODE (on separate form): | Fit=_Conf=_ | type* severity** | yrs ago % of plot description | |
| (103 | Te | _ | 1,00% | |
| | 8 | Natural | - 2 | |
| COMMUNITY NAME: | | Fire | l | |
| Book-Manlo > King Mal | N. C. | Cut | | |
| my my many | I LEGIT TOWN | Animal | smay gal g | |
| 2 | | Other | | |
| HOMOGENEITY | | **L=low. MI.=med low | **L=[ow MI_=med low M=med MH=med high H=high VH=near high | high |
| Gramogeneous Compositional trend across the | trend across the plot | Current Land Use: PARK | PARK | 9 |
| □ Conspicuous inclusions □ Irregular/pattern mosaic | n mosaic | Former Land Use: | LUNK DOWN | |
| - | HYDRØLOGIC REGIME* | 1 | | |
| | Deland (seldom flooded) | □ Intermittently flooded | | |
| SALINITY* | □ Intermittently/seasonally saturated | ☐ Semipermanently flooded | | |
| D Saltwater | (seldom flooded) | Dermanently flooded | | |
| □ Brackish | □ Permanently/Semipermanent. saturated | d Tidal/Seiche flooded daily | | |
| □ Fresh | (dry <1/yr, seldom flooded) | ☐ Tidal/Seiche flooded monthly | | ъ |
| □ Ppland (n/a) | □ Occasionally flooded (<1/yr) | ☐ Tidal/Seiche flooded irregular | | |
| | □ Temporarily flooded | (e.g. wind, storms) | | |

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

By opens carthasian a, Polystichum acrostichordes, and even Polysodium virginiaum.
Other herbs included abundant Virginia creeper, herb Robert, and white Avens.
Three types of Rubus present: occidentalis, alleghenienss; and pensylvanicus. Elderberry also present,

(by default unless plot is a wetland)

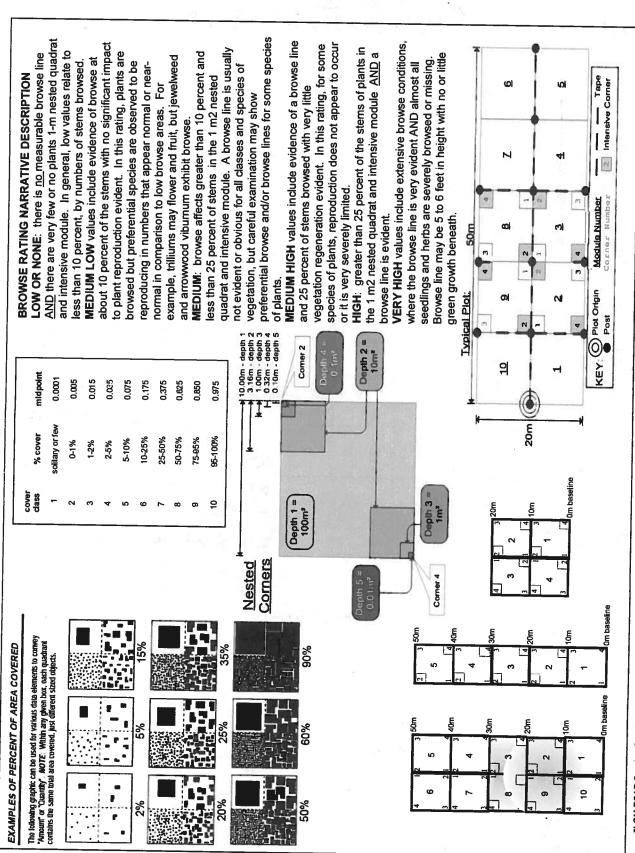
| 2aCM PCAP Species C | £ | کو نو | (7) | -1 | U) | 2 | 2 | 2 | ×2.5 | | | 2. | 30. | 0 | \(\frac{1}{2}\) | 2 | 4 5 | 2 | 23 | 5222 | 20 | ည | 2 | دو | 817 | Т. S H (F)(A) Br | Strata - Cov. entire plot | manupanto | Cleveland | 3 | • | Total modules: | CLEVELAND MET Project Label: |
|--|-----------------------|--------------------------|----------|---|----------------------------|-------------------|--------------------------|----------------|---------------------|---|--------------------|----------------------|------------------------|----------|--------------------|---------------|---------|-------------------|--|------------------|--------|-----------------|----------------|----|----------------|-------------------------------|------------------------------|-----------------------------|--|---|---------------|-----------------------------|--|
| 2aCM PCAP Species Cover Data sheet Page 1 of x_ver3.xls last revised 5/29/2012 ceh | L'Appteris intermedia | Bubus p | Wimus cu | Dryopteris marginalis | Polystichum acrostichoides | Leersta viralnica | TAKADWA CON A DOMESTICAL | Geum Canadense | Hackelia vivajnieva | - | Sopurum biternatum | Ceranium rober lanum | Traxinus pennsulvanica | Máss sp. | Itagus grandifolia | Lindera benzo | | Polygonum Virgini | Prisdema triphyllum somulium | Courus condition | 6 | Q. | rea l | ' | Acer saccharum | Species | ì | entire plot | describe amount of browse per species over | Br = Browse Level. Use cover classes to | | 10 | CLEVELAND METROPARKS Plant Community Assessment Program Species Cover Data Sheet 2a Project Label: PCAP Project name: 01 H 2013 |
| 5/29/2012 ceh | | | ಶ್ರ | <u>-</u> | ا وي | - V | X ACL126 11 2 | SPE 1-12-13 2 | <u>-</u> | - | 202 | <u></u> | U) | 253 | U U | シシ | 233 | 3 3 3 | න න | 3 2! | S C | \(\frac{1}{2}\) | رن دو | かな | H 9 H | depth cov depth | %unveg. litter (bare litter) | %unvegetated open water 1 0 | 1 0 - | intensive module: depth on depth | mod comer mod | Intensive modules: 4 Plot c | ment Program Species Cover Data S Project name: <u>ALHE 2013</u> |
| Natural Resor | 4222 | الع الع الع الع | | | S | | | 200 | 2 | | | | 13333 2333 | 4636 | دو | <u>シ</u> | H 2 3 H | | り い い い い い い い い い い い い い い い い い い い | 2) | | ー シ | | W | 0 4 4 6 4 | v depth cov depth cov | 000 | | 10 | cov depth cov depth cov depth cov d | comer | Plot configuration: 2×5 | heet 2a Plot no.: 1357 |
| Natural Resource Management FORM NR/2010-02a | <u>ه</u> | | | 2 4 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | | | | | 25 | | | | 2) | | 483 | e F | 7 | - | 30000 | |)) | 3 2 | 23 23 -1 | | 784 | depth cov depth cov depth cov | 02 | - | 100000000000000000000000000000000000000 | Soy death cov | ir mod comer | Plot area (ha): | Page of 2 |



1

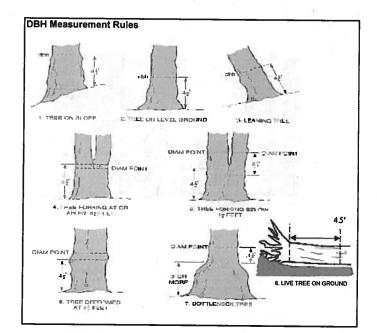
2bCM PCAP Species Cover Data Sheet Back Page_ver 1.3.ppt

| | | P Carain Court Data Cheet 29 | Page / of 2 |
|-----------------|---|--|---------------------------------|
| Project Label: | PCAP PCAP | Project Label: PCAP Project name: 01.41 2013 Plot no.: 1357 | • |
| Total modules: | 10 | Intensive modules: 4 Plot configuration: 2×5 | Plot area (ha): |
| ③ | Br = Browse Level. Use cover classes to | Estimate for each coner mod comer mod corner | mod comer mod comer mod come S |
| Metroparks | entire plot | %unvegetated open water 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | \ |
| ata | | %unveg. litter (bare litter) 1 | |
| T S H (F)(A) Br | 3r Species | C Voucher# depth cav depth cav depth av depth av depth cov depth cov depth | depth cov depth cov depth cov |
| 2) | 15 JUDA CC | | |
| P | 8 Vitis aestivalis | 2 | |
| 23 | 10 Prunus serotina | 20 | |
| 9) | Allium tricoccum | | |
| 92 | Coulophullum thatictraides | 7- |) (V) |
| دو | Dryopteris carthusiana man | 92 | 2 |
| စ္ | montiens capensis | ω 2 | |
| 542 | | دو | 2) L |
| | Cómicifica racémosa | 22 | |
| 22 | 7 Sambucu'S Comment Symbol | 80S | 2 2 2 |
| 92 | \sim | | 2 |
| ಖ | Polygonatum bitlerum | | 2 |
| <u>س</u> | | 2 | |
| 42 | _ | | |
| H = H | Fraxinus sp. | | |
| 2 | Sassifias albidum | | 70 |
| 2 | _ | | |
| دلا | 10 Rubus billeghêniensis | | |
| ಬ | Asarum Cobadense | | - |
| H | _ | | 7.5 |
| P | Asteracya sp. | | 7 |
| 92 | Polypodium virginianum | 04-563, 563 | |
| 93 | Rubius occidentalis | | |
| 2)× | Acer rubirum | | |
| | | | |



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

CLEVELAND METROPARKS Plant Community Assessment Program Natural Woody Stem Data Sheet Her saccharum Ulmus rubra Explain subsample (additional room on back): WHOIS STUME AGRICACIA COBLIFORMUNI Fagus grandifolia ther sacharum Tilia americana Starph Mr. Carrya cordy for mus Her SACCHUM Buthenocissus guingustoua furthin ocissus quintulation indoor benzoin any Cosh-formio TOOK Saccharum Morthenocissus quinquetolia Juden pour Ulmus rubra Taxinus Epocons (turesca rux inus/sp pennsymmuca Hoer Jackharium Standing Dead Saccharum Colditormiv Dead Project Label: PCAP Frunus voucher# 0.0 90 3 # sterns . 00 browsed D 0 0-1.4m or super % sub Project Name: 1357 clumps shrub # size class (cm) woody stems >1.4m 00 Ø 3 <u>የ</u> 1-<2.5 H 60 100 0 9 0 2.5-<5 . . Plot No.: 1357 90 5×10 60 10 - <15 15 - <20 20 - <25 Page: 25 - <30 30 - <35 으 9 Gleveland Metroparks 35 - <40 5 46,4 42.5 56 >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 10















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. Dleback: 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.



В

C

D

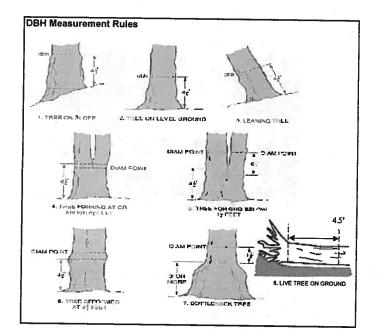
Ε

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.

| # stems |
|--------------------------|
| % sub |
| clumps 0-<1 1-2.5 2.5-<5 |
| |
| |
| 10. |
| |
| 15 - <20 20 - <25 25 |
| 7 8 20 - <25 25 - <30 |
| 7 8 20 - <25 25 - <30 30 |



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













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.

С

D

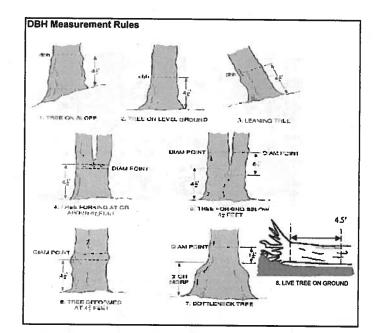
E

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- A: All main branches contain fine twigs (newly dead).
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- 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 Explain subsample (additional room on back): Kubus pennsylvanii Sambucus of Albertage Fagus grantifich Project Label: PCAP voucher# # stems C 0-1.4m browsed or super sample clumps % sub Project Name: 01 Hi 2013 shrub # size class (cm) woody stems >1.4m <u>수</u> 1-<2.5 2.5-<5 Plot No.: 1357 5×10 10 - <15 | 15 - <20 20 - <25 Page: 25 - <30 30 - <35 (P) Gleveland Retroparks 35 - <40 ö >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















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.



С

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.

| | | | | | | | | | | | | | | | | | | | | | | | | | Module |
|----|----|----|----|---|----|---|--------|----|----|----|----|-------|----|---|----|---|---|--|---|-----|---|---|---|------------|---------------------|
| 25 | 24 | 23 | 22 | 21 | 20 | 5 | 1 8 | 17 | 16 | 15 | 14 | 13 | 12 | = | 10 | 9 | 8 | 7 | 6 | Ch. | 4 | ω | 2 | - | <u>.</u> |
| | | | | | | | | | | | | | | | | | | | | | | | | None | Species |
| | | | | | | | | | | | | | | | | | | | | | | | | | Dea |
| | | | | | | | | | | | | | | | | | | | | | | | | | Voucher# |
| | | | | | | | | | | | | | | | | | | | | | | | | | (cm) |
| | | | | | | | | | | | | | | | | | | | | | | | | | DBH condition |
| | | | | | 7 | | | , | | | | | | | | | | | | | | | | | condition condition |
| | | | | | | _ | | | | | | | | | | | | L | | | | | | | holes pre |
| | | | | | | | | | | | | | | | | | | | | | | | | | present |
| | | | | | | | | | | | | | | | | | | | | | | | | | holes |
| | | | | | , | | | | | | Ba | seiln | | | | | | | | | | | | | |
| | | | | Map all ash trees ≥10cm in each module using Tree ID number | | | | | 2 | | | | | ٩ | 9 | | | *** Change intensive module numbers when necessary | | | | Z | | | |
| | | | | nodule using Tree ID nur | | | | C. | * | | | | | | •] | | | ımbers when necessar | | | | | | die die | |

CLEVELAND METROPARKS Emerald Ash Borer - Fraxinus Sheet

Project Label: PCAP

Project Name: 01 + 2013

| Tier 1: Early detectio | n/ Rapid response | | Pre | esence | | GPS | |
|---|--|-------------|--|---------|------|----------|--|
| | | NE | SE | sw | NW | | Presen |
| Microstegium vimineum | Japanese stiltgrass | | | | | | X: yes |
| Ranunculus ficaria | Lesser Celandine | | | | | | |
| Cynanchum louiseae (vine |) Black Swallow-wort | 1 | | 7 | 7 | | |
| Butomus umbellatus (wetland | d) Flowering Rush | | | | | | |
| Heracleum mantegazzianum | Giant Hogweed | | | | 1 | | |
| Tier 2: Assess | as Needed | | # of | Plant | s | comments | |
| | | NE | SE | sw | NW | | # of Pla |
| Acer platanoides | Norway Maple | | | | | | 1: 1- |
| Ailanthus altissima | Tree of Heaven | | | | | | 2: 11- |
| Lonicera japonica (vine | Japanese Honeysuckle | | | | | | 3: 51- |
| | Purple Loosestrife | | | | | | 4: 101- |
| Aegopodium podagraria (G-cover |) Bishop's Goutweed | | | | | | 5: >1, |
| Celastrus orbiculatus (vine | Asian Bittersweet | | | | | | [31 12] |
| Torilis sp. | Hedgeparsley | | | | 1 | | _ |
| Conium maculatum | Poison Hemlock | | | | | | |
| Rhamnus cathartica | Common Buckthorn (shruk | 2) | T | | | | · |
| Berberis thunbergii | Japanese Barberry (shruk | _ | 1 | | | | |
| Alnus glutinosa | European Alder | \top | | | 1 | | |
| Dipsacus laciniatus | Cut-leaf Teasel | | 1 | 1 | | | |
| Elaeagnus umbellata | Autumn Olive (shrub | <u>,, </u> | | | | | |
| Lonicera maackii | Amur Honeysuckle (shrub | _ | 1 | | 1 | | |
| Euonymus fortunei | Wintercreeper | 1 | | | | | |
| Tier 3: Presence | | | # of | Plants | 5 | comments | |
| | | NE | SE | Isw | NW | | # of Pla |
| Convallaria majalis (G-cover) | Lily of the Valley | | | | | | 1: 1-1 |
| Coronilla varia (G-cover | Crown Vetch | | | | | | 2: 11-5 |
| Eleutherococcus pentaphyllus | Five-leaf Aralia (shrub | <u>, 1</u> | | | | | 3: 51-1 |
| Pachysandra terminalis (G-cover) | Japanese Pachysandra | | | | | | 4: 101-1 |
| Philadelphus coronarius | Mock Orange (shrub | ,, | | 1 | | | 5: >1,0 |
| Pulmonaria officinalis (G-cover) | Lungwort | 4 | | 1 | | | <u> </u> |
| Rubus phoenicolasius | Wineberry | _ | | | | | |
| | | | | | _ | | |
| ris pseudacorus (wetland) | Yellow Flag Iris | _ | † | | 1 1 | | |
| | Yellow Flag Iris Star of Bethlehem | | | | | | |
| Ornithogalum umbellatum | Star of Bethlehem | | | | | | |
| Ornithogalum umbellatum Viburnum opulus var. opulus | Star of Bethlehem European Cranberry (shrub) | | | | | | |
| Ornithogalum umbellatum Viburnum opulus var. opulus | Star of Bethlehem European Cranberry (shrub) Doublefile Viburnum (shrub) | | Pres | ence | | comments | |
| Ornithogalum umbellatum /iburnum opulus var. opulus /iburnum plicatum | Star of Bethlehem European Cranberry (shrub) Doublefile Viburnum (shrub) | | Pres | ence | NW | comments | # of Dia |
| Ornithogalum umbellatum /iburnum opulus var. opulus /iburnum plicatum Tier 4: Widespread | Star of Bethlehem European Cranberry (shrub) Doublefile Viburnum (shrub) | NE | | sw | NW 7 | comments | |
| Ornithogalum umbellatum /iburnum opulus var. opulus /iburnum plicatum Tier 4: Widespread | Star of Bethlehem European Cranberry (shrub) Doublefile Viburnum (shrub) and abundant Garlic Mustard | NE 3 | | sw 2 | NW 7 | comments | 1: 1-1 |
| Ornithogalum umbellatum /iburnum opulus var. opulus /iburnum plicatum Tier 4: Widespread Alliaria petiolata igustrum vulgare | Star of Bethlehem European Cranberry (shrub) Doublefile Viburnum (shrub) and abundant Garlic Mustard Common Privet (shrub) | NE 3 | | sw | NW 7 | comments | 1: 1-1 2: 11-5 |
| Ornithogalum umbellatum /iburnum opulus var. opulus /iburnum plicatum Tier 4: Widespread Alliaria petiolata igustrum vulgare . morrowii, L. tatarica | Star of Bethlehem European Cranberry (shrub) Doublefile Viburnum (shrub) and abundant Garlic Mustard Common Privet (shrub) Bush Honeysuckles (shrub) | NE 3 | | sw 2 | NW J | comments | 1: 1-1 2: 11-5 3: 51-1 |
| Ornithogalum umbellatum /iburnum opulus var. opulus /iburnum plicatum Tier 4: Widespread Alliaria petiolata igustrum vulgare . morrowii, L. tatarica /halaris arundinacea | Star of Bethlehem European Cranberry (shrub) Doublefile Viburnum (shrub) and abundant Garlic Mustard Common Privet (shrub) Bush Honeysuckles (shrub) Reed Canarygrass | NE 3 | | sw 2 | NW 7 | comments | 1: 1-1 2: 11-5 3: 51-1 4: 101-1 |
| Ornithogalum umbellatum /iburnum opulus var. opulus /iburnum plicatum Tier 4: Widespread Alliaria petiolata igustrum vulgare . morrowii, L. tatarica thalaris arundinacea thragmites australis (wetland) | Star of Bethlehem European Cranberry (shrub) Doublefile Viburnum (shrub) and abundant Garlic Mustard Common Privet (shrub) Bush Honeysuckles (shrub) Reed Canarygrass Phragmites | NE 3 | | sw 2 | NW / | comments | 1: 1-1 2: 11-5 3: 51-1 4: 101-1 |
| Ornithogalum umbellatum //iburnum opulus var. opulus //iburnum plicatum Tier 4: Widespread Alliaria petiolata igustrum vulgare . morrowii, L. tatarica Phalaris arundinacea Phragmites australis (wetland) folygonum cuspidatum | Star of Bethlehem European Cranberry (shrub) Doublefile Viburnum (shrub) and abundant Garlic Mustard Common Privet (shrub) Bush Honeysuckles (shrub) Reed Canarygrass Phragmites Japanese Knotweed | NE 3 | | sw 2 | NW J | comments | 1: 1-1 2: 11-5 3: 51-1 4: 101-1 |
| Ornithogalum umbellatum /iburnum opulus var. opulus /iburnum plicatum Tier 4: Widespread Alliaria petiolata igustrum vulgare . morrowli, L. tatarica thalaris arundinacea thragmites australis (wetland) folygonum cuspidatum rangula alnus | Star of Bethlehem European Cranberry (shrub) Doublefile Viburnum (shrub) and abundant Garlic Mustard Common Privet (shrub) Bush Honeysuckles (shrub) Reed Canarygrass Phragmites Japanese Knotweed Glossy Buckthorn (shrub) | NE 3 | SE | sw 2 | 1 | comments | 1: 1-1 2: 11-5 3: 51-1 4: 101-1 |
| Ornithogalum umbellatum /iburnum opulus var. opulus /iburnum plicatum Tier 4: Widespread Alliaria petiolata igustrum vulgare . morrowii, L. tatarica thalaris arundinacea thragmites australis (wetland) olygonum cuspidatum rangula alnus osa multiflora | Star of Bethlehem European Cranberry (shrub) Doublefile Viburnum (shrub) and abundant Garlic Mustard Common Privet (shrub) Bush Honeysuckles (shrub) Reed Canarygrass Phragmites Japanese Knotweed Glossy Buckthorn (shrub) Multiflora Rose (shrub) | NE 3 | | sw 2 | NW 1 | comments | 1: 1-1 2: 11-5 3: 51-1 4: 101-1 |
| Ornithogalum umbellatum /iburnum opulus var. opulus /iburnum plicatum Tier 4: Widespread Alliaria petiolata igustrum vulgare morrowii, L. tatarica Phalaris arundinacea Phragmites australis (wetland) olygonum cuspidatum rangula alnus losa multiflora ypha angustifolia, T. x.glauca | Star of Bethlehem European Cranberry (shrub) Doublefile Viburnum (shrub) and abundant Garlic Mustard Common Privet (shrub) Bush Honeysuckles (shrub) Reed Canarygrass Phragmites Japanese Knotweed Glossy Buckthorn (shrub) Multiflora Rose (shrub) Cattails (wetland) | NE 3 | SE | sw 2 | 1 | comments | 1: 1-1 2: 11-5 3: 51-1 4: 101-1 |
| Ornithogalum umbellatum /iburnum opulus var. opulus /iburnum plicatum Tier 4: Widespread Alliaria petiolata .igustrum vulgare morrowii, L. tatarica Phalaris arundinacea Phragmites australis (wetland) Polygonum cuspidatum Prangula alnus Posa multiflora Pypha angustifolia, T. x.glauca Irsium arvense | Star of Bethlehem European Cranberry (shrub) Doublefile Viburnum (shrub) and abundant Garlic Mustard Common Privet (shrub) Bush Honeysuckles (shrub) Reed Canarygrass Phragmites Japanese Knotweed Glossy Buckthorn (shrub) Multiflora Rose (shrub) Cattails (wetland) Canada thistle | NE 3 | SE | sw 2 | 1 | comments | 1: 1-1 2: 11-5 3: 51-1 4: 101-1 |
| Ornithogalum umbellatum //iburnum opulus var. opulus //iburnum plicatum Tier 4: Widespread Alliaria petiolata igustrum vulgare morrowii, L. tatarica //halaris arundinacea //hragmites australis (wetland) //olygonum cuspidatum //rangula alnus //osa multiflora //ypha angustifolia, T. x.glauca | Star of Bethlehem European Cranberry (shrub) Doublefile Viburnum (shrub) and abundant Garlic Mustard Common Privet (shrub) Bush Honeysuckles (shrub) Reed Canarygrass Phragmites Japanese Knotweed Glossy Buckthorn (shrub) Multiflora Rose (shrub) Cattails (wetland) | NE 3 | SE | sw 2 | 1 | comments | |

STANDING BIOMASS (required for emergent wedands) collected in 0.1m clip plots (32x32 cm) from corners 1 and 3 in each intensive module. Required for VIBI-E score calculation. CF=check when CLEVELAND METROPARKS Plant Community Assessment Program - Plant Cover and Earth Surface Project Label: PCAP Project Name:

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Comer

| CLASSIFICATION | | | |
|--|----------------|-------|--|
| (F1) = excellent, g Fit and Confidence | | | |
| Hydrogeomorphic class (WETLANDS ONLY): | | | |
| o DEPRESSION | Fit | Conf- | |
| n IMPOUNDMENT n Beaver n Human | 1 | Conf- | |
| o RIVERINE a Headwater a Mainstem a Channel | File | Conf | |
| □ SLOPE (ground water hydrology or on a physical slop) | 7 | Conf | |
| n FRINGING n Reservoir n Natural Lake | Fit | Conf | |
| a COASTAL (specify subclass) | Fi | Conf | |
| n BOG (strongly, moderately, weekly ombrotrophic) | F)T | Conf= | |
| Ohio EPA VIBI Plant Community Class (WETLANDS ONLY): | NLY | | |
| © FOREST □ swamp forest □ bog forest □ forest seep | and the second | Conf= | |
| □ EMERGENT □ marsh □ wet mendow □ open bog | 7 | Conf | |
| SHRUB o shrub swamp o tall sh. bog o tall sh. fen | T | Conf | |

MICROTOPOGRAPHIC FEATURE COUNTS - Intensive modules only Vanics for microhabitat features. Select one or select two and average the score NOTE: If mod falls on a slope automatically gets ranked based on staepness (1-3) to begin + any features present

feature is absent or functionally absent from the wetland

lope 1 = sīght elevational grade across module (hill)

Slope 2 = falls on slope ~20 °

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

- feature is present in the wettand 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

| | | no of | no of | no. macro. | c.w.d coun | cw.d | M. | th minim |
|--------|--------|----------|-------------------|-------------|------------|------|-----------|------------------|
| | | tussocks | hummocks | depressions | (2-12 cm) | | (12-40cm) | (12-40cm) >40 cm |
| | | | uplands (Tip-Ups) | | | | | |
| *1 | | depth 3 | depth 2 | depth 1 | depth t | | depth i | depth 1 depth 1 |
| | | lxim | 3 16x3.16m | 10x10m | 10x10m | | 10x10m | 10x10m 10x10m |
| #bom | corner | (count) | (count) | (count) | (count) | | (count) | (count) (count) |
| Ŕ | | 0 | 0 | 6 | 00 | Ĭ | 4 | |
| 3 | | 0 | 0 | 24 | 36 | | w | U O |
| 00 | | O | | | 15 | | 5, | 5 1 |
| 4 | , | Ó | 0 | a) | - 5 | | | 0 |
| h d | | | | | | | | |
| | | | | | | | isi W | |
| | | | | | | | | |
| | | | | | | | | |

Plot No.:

1357

@Glaveland Metroparts Page: 1 of 1

[FILLED OUT USING GIS PROGRAM - DO NOT FILL OUT IN FIELD] ACNAB INDICES (degrees) + for up - for down Terrain Shape Index (site microtopographic shape) Landform Index (position within landscape) +315 degrees +270 degrees +225 degrees +180 degrees +135 degrees +45 degrees +90 degree At aspect

NE z

LFI is angle of plot to the honzon TSI is angles formed by local slopes. For TSI measure

SE

¥

€ SW

> eye of person standing - 10 m recorders eye to angle from

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

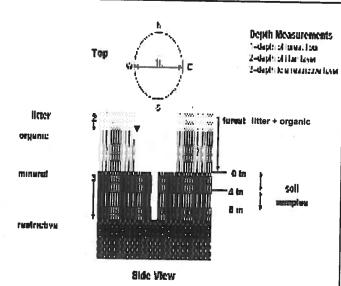
| 9 | 8 | 3 | 2 | Module | 1.0 |
|----|-------------------|----|----------|--------|-----|
| 10 | 15 | 10 | 17 | 2 | |
| 13 | 15 | 10 | 10 | s | |
| 三 | <i>S</i> E | -8 | ∞ | E | |
| 0 | • | = | 5 | ¥ | |

COVER BY STRATA

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

*Very tall shrubs are sometimes included in the tree stratum
**Can also include seedlings of shrubs, i.e. all shrubs <0.5m

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



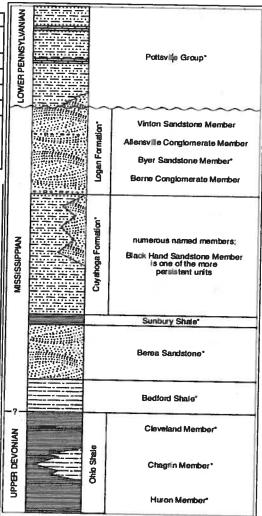


FIGURE 3-20.—Generalized section of Upper Devunian Mississippian, and Lower Pennsylvanian formations in northeastern Ohio. Asterisks indicate units that are fossiliferous. This composite section represents about 400 meters of rock exposed across the area. The section is not to scale, but the thicknesses indicated are proportional. The term "Waverty is used in the older literature to refer to Mississippian rocks in Ohio. Some geologists use the European term "Carboniferous," which encompasses the Mississippian 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 operacular massive sandstone that is fairly undespread 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.

CLEVELAND METROPARKS Plant Community Assessment Program - Soils, Crown Cover, Standing Biomass Data Sheet 6a Project label: PCAP Project Name: 〇田高の

Officereland Retroparks

Page: 1 of 1

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

Soil pit module # 2 (one par service plot)
5 cm matrix color 3 5 12 3 20 cm matrix color hydro cond.*** texture* texture* oxid roots redox features** oxid roots hydr. cond.*** mottle mottle dox features** ottle color ottle color G W S 1 < N z z

refer to texture classes on reverse side

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

etes: include evidence of earthworms (worms, dundated S-saturated M-moist D-dry

NO EVIDENCE OF WORMS

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

| Soil Collection Module Horizon (A. B. C) |
|--|
| 2,3,8,9 composited A |
| Web Soil Survey Information: |
| Soil Series/Type: 402- Loudon ville |
| Soil Series Source: Ohio Soil Survey |
| Landform type: HMS |
| Depth to rest. Layer: 20 to 40 inches |
| Parent Material: Till over residuin wei |
| DRAINAGE* |
| □ Excessively dr. □ Somewhat excessively |
| Well drained Moderately well dr. |
| □ Somewhat poorly dr. □ Very poorly dr. |
| a Impermeable surface |

51/218 80

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

| 9 | 8 | 3 | ગ્ર | mod# |
|------|-----|-----|-----|------------------------------------|
| 2,0 | 7.5 | 20 | 3 | 1 litter+ organic depth (cm) |
| ر کی | 2,5 | 2 | رو | 2 litter depth (cm) |
| 0 | 0 | Ø | 2 | water depth |
| 730 | 770 | >30 | 2% | depth sat soil (cm) |

| EARTH SURFACE & GROUND COVER | CE & GROU | ND COVER | |
|------------------------------|------------|------------------------|---------|
| Underlying Earth Surface* | Surface* | Ground Cover | |
| (Sum = 100%) | percent | (Each ≤ 100%) | percent |
| Histosol | 0% | Coarse Woody Debris*** | 127 |
| Mineral Soil | 50% | Fine Woody Debris*** | .7% |
| Gravel-Cobble* | 0% | Litter | 50% |
| Boulder** | 50% | Duff (Ferm.+ Humus) | 0% |
| Bedrock | 0% | Bryophyte- Lichen | 26% |
| • Gravel-Cobble = 1/16-10" | · 1/16-10" | Water | 3 |
| **Boulder = > 10 in | 5 | Bare Soil | 2 2 |
| *** >5 cm in diameter | oter | Road/Trail | 0% |
| **** <5 cm in diameter | meter | Other | <u></u> |

Bootleg unsanctioned Bridle

Hiking sanctioned

Gravel

Deer

Type

NOWE

%Cover

All Purpose

acord type and cover for each RAIL INFORMATION:

| 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 - | 889° |
| Shrub | .5 5 | 48% |
| Herb | 5.0 | 33/ 38 % |
| (Floating)* | | |
| (Aquatic)* | 1 | |
| * rooted and fic | 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, |

3-10 x plot size

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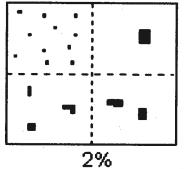
> 100 x plot size 10-100 x plot size >600 x plot size

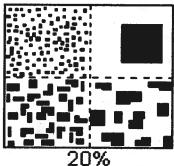
STAND SIZE

1-3 x plot size < plot size



| Class | C | ode | Criteria: % of |
|--------|-------|-------|----------------------|
| 1 | Conv. | NASIS | Surface Area Covered |
| Few | ſ | # | < 2 |
| Common | _ c | # | 2 to < 20 |
| Many | m | ·# | ≥ 20 |





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

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

Position

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 Fiat Piains:

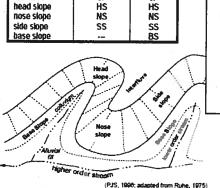
Code

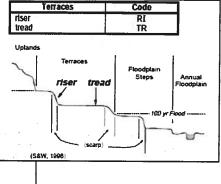
PDP

NASIS

e.g., (for Hills) nose slope or NS.

interfluve





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.

| summit shoulder backslope footslope toeslope | SU SH BS FS TS | |
|--|----------------------------|---|
| Su Sh Bs | | 8 |

Bs Bs Bs Fs Fs Address from Rune. 1975)

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

UPLAND: Not a wetland. Very rarely flooded.

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

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

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

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

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

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

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

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

| | | 191023 | | | | | | | | | | | | | | | | | | _ | - | |
|----------------------------------|------------------------------|-----------------|--------------------|------------------|-----------------|----------------|----------------------|--|-----------------------------|--------|------------------|--------------------|--------------------|----------------|---------------------|---------------------------------|------------------------------|------------|--------------|----------|--------|-------|
| | | | | M | | | FOF | RM B-1: | BUFF | ER | SAN | IPLI | E PL | OT. | S (Fr | ont) | | Reviewed I | by (initial) | : | - (| |
| Site I | D: 🛶 | YAG | PH | : 1 | 35 | 7 | | | | | | | | | DATE | 07 | 131 | 12 | 0 | 1 3 | b | |
| Locatio | | | | | 11104 | | | | FIII | in b | ubb | le(s) | if pl | ot(s |) cou | ld not be | sample | d and | flag - | → | | |
| Ø AA C | enter | 0 | N | 0 | S | OE | 0 | W | OP | lot ' | 1 | OF | Plot 2 | 2 | OP | lot 3 | | | | | | |
| | | | | | | | cells | | Buffer | | | | | | | | | | 148 | | | |
| Fill in bubble Strata Section | s for ail th n: Fill in a | at app pprop | ily: Ca rlate c | nopy 1 over c | Гуре: lass b | D = D ubbie | eciduou: for each | s; E = Evergr ı strata type f | een. Leaf T or each plot | ype: E | 8 = Bro Absen | adlear t; 1 = S | ; N = N Sparse(| eedie <10% | Lear. A b); 2=Mo | bsent: No tree derate(10-40% | : сапору. %); 3 = Hea | vy (40-75 | %); 4 = \ | ery He | eavy (| >75%) |
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| Plot 1 | | | e: 🐠 | $-\bar{z}$ | | | Flag | Plot 2 | Lea | f Typ | e: 🕑 | <u>(</u> | | | Flag | Plot 3 | Leaf | Type: (| B C |) | | Flag |
| Big Trees (> | 0.3m DBH) | 0 | 0 | 0 | (1) | 0 | | Big Trees (| >0.3m DBH) | 0 | 0 | 0 | 0 | 0 | | Big Trees | (>0.3m DBH) | 00 | 0 | 0 | 0 | |
| Small Trees (< | 0.3m DBH) | 0 | 0 | 0 | 1 | 0 | | Small Trees | (<0.3m DBH) | 0 | 0 | 0 | 0 | 0 | | Small Trees | (<0.3m DBH) | \odot | 0 | 0 | 0 | |
| Woody Shrubs (0.5m- | , Saplings 5m HIGH) | 0 | 0 | 1 | 0 | 0 | | Woody Shrul (0.5r | s, Saplings n-5m HIGH) | 0 | 0 | 0 | 0 | 0 | | | ibs, Saplings im-5m HIGH) | 0 | 0 (0 | 0 | 0 | |
| Woody Shrubs (<0. | , Saplings 5m HIGH) | 0 | (a) | 0 | 0 | 0 | | Woody Shrul (< | os, Saplings 0.5m HIGH) | 0 | 0 | 0 | 0 | 0 | | | ibs, Saplings <0.5m HIGH) | 0 |) [0 | 0 | 0 | |
| Herbs, F | | 0 | | 0 | 0 | 0 | | Herbs, | Forbs and Grasses | 0 | 0 | 0 | 0 | 0 | | Herbs, | Forbs and, Grasses | 0 | 0 (| 0 | 0 | |
| Bare | ground | (1) | 0 | 0 | 0 | 0 | | Bar | e ground | 0 | 0 | 0 | 0 | 0 | | Bar | re ground | 0 |) [0 | 0 | 0 | |
| Lit | er, duff | 0 | 0 | 0 | (II) | 0 | | L | itter, duff | 0 | 0 | 0 | 0 | \odot | | L | itter, duff | 0 | 0 (0 | 0 | 0 | |
| | Rock | 0 | 0 | 0 | 0 | | | | Rock | 0 | 0 | 0 | 0 | 0 | | | Rock | 0 | 0 | 0 | 0 | |
| | Water | (B) | 0 | 0 | 0 | 0 | | | Water | 0 | 0 | 0 | 0 | 0 | | | Water | 0 | 0 (| 0 | 0 | |
| | bmerged egetation | | 0 | 0 | 0 | 0 | | | ubmerged Vegetation | 0 | 0 | 0 | 0 | 0 | | | Submerged Vegetation | 0 | 0 | 0 | 0 | |
| | | enc | e/Ab | senc | e - (| Confi | rm that | | | ndica | tes p | resen | ce and | an (| unfilled | bubble indi | | | filling th | is but | ble. | • |
| Resi | dential | and | Urba | an Si | tres | sors | | | Hydrolo | gy S | Stres | sors | | | | | Agricult | ural & l | Rural S | Stres | sors | |
| FIII bubble | o If prese | ent - I | Plot | 1 | 2 | 3 | Flag | Fill bubbl | e if prese | ent - | Plot | 1 | 2 | 3 | Flag | Fill bubble | e if prese | nt - Plot | 1 | 2 | 3 | Flag |
| Road - gra | avel | | | 0 | 0 | 0 | | Ditches, C | Channeliza | ation | | 0 | 0 | 0 | | Pasture/Ha | ау | | 0 | 0 | 0 | |
| Road - two | ane | | | 0 | 0 | 0 | | Dike/Dam | | Bed | | 0 | 0 | 0 | | Range | | | 0 | 0 | 0 | |
| Road - fou | ır lane | 18.0 | | 0 | 0 | 0 | | Water Le | | I Stn | ucture | 0 | 0 | 0 | | Row Crops | 3 | | 0 | 0 | 0 | |
| Parking Lo | ot/Paven | nent | | 0 | 0 | 0 | | Excavatio | n, Dredgii | ng | | 0 | 0 | 0 | | Fallow Fiel ROW CROP FIEL | LD) | | 0 | 0 | 0 | |
| Golf Cour | se | | | 0 | 0 | 0 | | Fill/Spoil I | | | | 0 | 0 | 0 | | Fallow Fiel SHRUBS, TRE | | ASS, | 0 | 0 | 0 | |
| Lawn/Parl | < | | | 0 | 0 | 0 | | Freshly D (UNVEGETA | | Sedir | nent | 0 | 0 | 0 | | Nursery | | | 0 | 0 | 0 | |
| Suburban | Residen | itial | | 0 | 0 | 0 | | Soil Loss | Root Exp | osure | 9 | 0 | 0 | 0 | | Dairy | | | 10 | 0 | 0 | |
| Urban/Mu | Itifamily | | | 0 | 0 | 0 | | Wall/Ripra | ар | | | 0 | 0 | 0 | | Orchard | | | 0 | 0 | 0 | _ |
| Landfill | | | | 0 | 0 | 0 | | Inlets, Ou | | | | 0 | 0 | 0 | | Confined A | | eding | 0 | 0 | 0 | |
| Dumping | | | | 0 | 0 | 0 | | (EFFLUENT | OR STORM | WATE | R) | 0 | 0 | 0 | | Rural Resi | - | | 0 | 0 | 0 | |
| Trash | | | | 0 | 0 | 0 | | (SHEETFLO | | птро | | 10 | 0 | 0 | | Gravel Pit | | | 0 | 0 | 0 | |
| Other: | - | | | 0 | 0 | 0 | | Other: | | | | 0 | 0 | 0 | | Irrigation | - | | 0 | 00 | 00 | |
| Other: | | | | 0 | 0 | 0 | | Other: | | | No. | 0 | 0 | 0 | | Other: | | | 10 | 0 | | |
| Indu | strial D | evel | opm | ent S | Stres | sor | 8 | | | | | | | | | tion Stress | | | | | | I |
| Fili bubbl | e if pres | ent - | Plot | 1 | 2 | 3 | Flag | Fili bubbi | e if prese | nt - | Plot | 1 | 2 | 3 | Flag | Fill bubb | ole if pres | ent - Plo | | 2 | 3 | Flag |
| Oil Drilling | | | | 0 | 0 | 0 | | Forest Cle | ar Cut | | | 0 | 0 | 0 | | Herbicide (| Jse | | 0 | 0 | 0 | |
| Gas Wells | s | | | 0 | 0 | 0 | | Forest Sel | ective Cu | l . | | 0 | 0 | 0 | | Mowing/Sh | rub Cuttin | g | 10 | 0 | 0 | |
| Mine (sur | face) | | | 0 | 0 | 0 | | Tree Plant | | | | 0 | 0 | 0 | | Trails | antlan | | 0 | 0 | 0 | |
| Mine (und | lergroun | d) | 1111 | 0 | 0 | 0 | | Tree Cano (INSECT) | | | | 0 | 0 | 0 | | Soil Compa (ANIMAL OR I | HUMAN) | | 0 | 0 | 0 | |
| Military | | | | 0 | 0 | 0 | | Shrub Lay (WILD OR DO | DMESTIC) | | H | 0 | 0 | 0 | | Offroad vel | | | 0 | 0 | 0 | |
| Other: | | | | 0 | 0 | 0 | | Highly Gra (OVERALL < Recently E | zed Gras PHGH) | ses | | 0 | 0 | 0 | | Soil erosion OR OVERUSE | • | ND, WATE | R O | 0 | 0 | |
| Other: | | | | 0 | 0 | 0 | | Canopy | | | | 0 | 0 | 0 | | Other: | | | _ 0 | 0 | 0 | |
| Other: | | 7- | | 0 | 0 | 0 | 120 | Recently E | Burned Gr | assla | nd | 0 | 0 | 0 | | Other: | | | _ 0 | 0 | 0 | |
| | lag codes | : K= | No me | | | t mad | e, U = 5 | | | F1,F | 2, etc | = mis | sc. flag | s ass | igned b | y each field o | rew. | 24 | 2816 | 830 | 4 (| |

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

Buffer Sample Plots 05/27/2011



| | | | | | | | - | | | absence by filling in this bub | | | | 3 |
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| Fill bubble if present - Plo | | 2 | 3 | | Fill bubble if present - Piot | 1 | 2 | 3 | Flag | | ole 1 | 2 | 3 | Flag |
| Eurasian Watermilfoil | 0 | 0 | 0 | | Purple Loosestrife | 0 | 0 | 0 | | Johnson Grass | 0 | 0 | 0 | ria |
| Water hyacinth | 0 | 0 | 0 | 77. | 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 | |
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| Big Trees (> | 0.3m DBH) | 0 | 0 | 0 | (| 0 | | Big Trees (> | >0.3m DBH) | 0 | 0 | 0 | | 0 | | Big Trees | (>0.3m DBH) | 0 | 0 | 0 | 0 | | | |
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| Woody Shrubs (0.5m- | , Saplings 5m HIGH) | 0 | 0 | 0 | ۹ | 0 | | Woody Shrub (0.5m | os, Sapiings n-5m HIGH) | 0 | | 0 | 0 | 0 | | | ubs, Saplings im-5m HIGH) | 0 | 0 | 9 | 0 | Ø | | |
| Woody Shrubs (<0. | , Saplings .5m HIGH) | 0 | | 0 | 0 | 0 | | Woody Shrub (<(| os, Saplings 0.5m HIGH) | 0 | • | 0 | 0 | 0 | | Woody Shru (< | rbs, Saplings <0.5m HIGH) | 0 | 0 | 0 | 0 | 4 | | |
| Herbs, F | orbs and Grasses | 0 | (b) | 0 | 0 | 0 | | Herbs, I | Forbs and Grasses | 0 | (| 0 | 0 | 0 | | Herbs, | Forbs and Grasses | 0 | 0 | 0 | 0 | | | |
| Bare | ground | (P) | 0 | 0 | 0 | 0 | | Bare | e ground | (a) | 0 | 0 | 0 | 0 | | Bar | re ground | 1 | 0 | 0 | 0 | 0 | | |
| Lit | ter, duff | 0 | 0 | 0 | 0 | (| | Li | itter, duff | 0 | 0 | 0 | 0 | (| | L | itter, duff | 0 | 0 | 0 | 0 | | | |
| | Rock | 0 | 0 | 0 | | 0 | | | Rock | 0 | 0 | 0 | (| 0 | | | Rock | 0 | 0 | 0 | 0 | 0 | | |
| | Water | • | 0 | 0 | 0 | 0 | | <u> </u> | Water | 0 | 0 | 0 | 0 | 0 | | _ | Water | (| 0 | 0 | 0 | 0 | | |
| | bmerged egetation | (1) | 0 | 0 | 0 | 0 | | | ubmerged /egetation | (3) | 0 | 0 | 0 | 0 | | | Submerged Vegetation | (1) | 0 | 0 | 0 | 0 | | |
| | | ence | e/Ab | senc | e - (| Confi | rm that | | | ndica | tes p | esen | e and | d an i | unfilled | | | nce t | oy filli | ng thi | s bub | ble. | 0 | |
| Resi | dential | and | Urba | an Si | ress | ors | | | Hydrolo | gy S | itres | sors | | | | led bubble indicates absence by filling this but Agricultural & Rural Stres | | | | | | essors | | |
| FIII bubble | if prese | ent - I | Plot | 1 | 2 | 3 | Flag | FIII bubbi | e If prese | ent - f | Piot | 1 | 2 | 3 | Flag | Fili bubble | e if preser | ıt - P | lot | 1 | 2 | 3 | Flag | |
| Road - gra | avei | | | 0 | 0 | 0 | | Ditches, C | hanneliza | ation | | 0 | 0 | 0 | | Pasture/Ha | ау | IM | | 0 | 0 | 0 | | |
| Road - two | ane | | | 0 | 0 | 0 | | Dike/Dam/ | | Bed | | 0 | 0 | 0 | | Range | | | | 0 | 0 | 0 | | |
| Road - fou | ır lane | | | 0 | 0 | 0 | | Water Lev | | l Stru | cture | 0 | 0 | 0 | | Row Crops | | | | 0 | 0 | 0 | | |
| Parking Lo | ot/Paverr | nent | | 0 | 0 | 0 | | Excavation | n, Dredgir | ng | | 0 | 0 | 0 | | Fallow Field ROW CROP FIEL | (O) | | NG | 0 | 0 | 0 | | |
| Golf Cours | se | | | 0 | 0 | 0 | | Fill/Spoil B | | | | 0 | 0 | 0 | | Fallow Field SHRUBS, TRE | | ASS, | | 0 | 0 | 0 | | |
| Lawn/Parl | (| | | 0 | 0 | 0 | | Freshly De | | Sedin | nent | 0 | 0 | 0 | | Nursery | | | | 0 | 0 | 의 | | |
| Suburban | Residen | tial | | 0 | 0 | 0 | | Soil Loss/I | | osure |) | 0 | 0 | 0 | | Dairy | | | | 0 | 0 | 0 | | |
| Urban/Mu | itifamily | | | 0 | 0 | 0 | | Wall/Ripra | | | | 0 | 0 | 0 | | Orchard | | | | 0 | 0 | 0 | | |
| Landfill | | | | 0 | 0 | 0 | | inlets, Out | | | | 0 | 0 | 0 | | Confined A | | ding | | 0 | 의 | 0 | | |
| Dumping | | | | 0 | 0 | 0 | | Point Sour (EFFLUENT O | OR STORMV | NATER | ₹) | 0 | 0 | 0 | | Rural Resid | dential | el i i | | 0 | 이 | 0 | | |
| Trash | | 777 | | 0 | 0 | 0 | | (SHEETFLOY | M) | | | 0 | 0 | 0 | | Gravel Pit | | | | 0 | | 0 | | |
| Other: | | | A CONTRACT | 0 | 0 | 0 | | Other: | | | _ | 0 | 0 | 0 | | Irrigation | | | | 0 | 의 | 0 | | |
| Other: | | | | 0 | 0 | 0 | | Other: | | | | 0 | 0 | 0 | | Other: | | - | _ | 0 | 0 | 이 | | |
| Indu | strial D | evel | opm | ent S | Stres | sor | 5 | | | | | | labit | at/V | egeta | tion Stress | sors | SE. | | | | 4 | | |
| Fili bubbie | if prese | ent - l | Plot | 1 | 2 | 3 | Flag | Fili bubble | if prese | nt - I | Plot | 1 | 2 | 3 | Flag | Fill bubb | le if pres | ent - | Plot | 1 | 2 | 3 | Flag | |
| Oil Drilling | | | | 0 | 0 | 0 | | Forest Clea | ar Cut | | | 0 | 0 | 0 | | Herbicide U | Jse | | | 0 | 0 | 0 | | |
| Gas Wells | 5 | | | 0 | 0 | 0 | | Forest Sele | ctive Cut | | | 0 | 0 | 0 | | Mowing/Shi | rub Cutting | 9 | | 0 | 0 | 0 | | |
| Mine (surf | ace) | | | 0 | 0 | 0 | | Tree Planta | | | | 0 | 0 | 0 | | Trails | | | | 0 | 0 | 0 | | |
| Mine (und | erground | 1) | | 0 | 0 | 0 | | Tree Canor (INSECT) | y Herbivo | ory | | 0 | 0 | 0 | | Soil Compa (ANIMAL OR H | | | | 0 | 0 | 0 | | |
| Military | | | | 0 | 0 | 0 | | Shrub Laye | | d | | • | 0 | 9 | | Offroad veh | nicle dama | ge | | 0 | 0 | 0 | | |
| Other: | *** | | | 0 | 0 | 0 | | Highly Graz | zed Grass | ses | | 0 | 0 | 0 | | Soil erosion OR OVERUSE | | ID, WA | TER, | 0 | 0 | 0 | | |
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| | an codes | · K = I | No me | _ | | | a II=S | | | F1.F: | 2 atc | _ | | | igned b | y each field c | new. | | | 160 | | _ | | |

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

Buffer Sample Plots 05/27/2011



| Site ID: | PC | AP | H: | 135 | 7 | DAT | E: (| 7 | 1 | Reviewed by | | 7 | | |
|---|--|---|--------------------------------------|---|---|--|--------------------------------------|---------------------------------|--|--|---------------------------|-------------------|------------------------|---------------------|
| | | - | 17/65 | | | | - | | | absence by filling in this bub | hio | | | |
| Fili bubble if present - Pk | | 2 | 3 | | Fill bubble if present - Plot | 1 | 2 | 3 | | Fill bubble if present - Plot | 1 | 2 | 3 | Flag |
| Eurasian Watermitfoil | 0 | 0 | 0 | | Purple Loosestrife | 0 | 0 | 0 | 1149 | Johnson Grass | 0 | 0 | \vdash | r ic. |
| 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 | 9 | \vdash | 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 | | Other: | | | 0 | |
| Callada Tinoue | 10 | 0 | 101 | | Leary Spurge | U | 0 | | | | 0 | 0 | | |
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| Herbs, F | orbs and Grasses | | | 0 | 0 | 0 | | Herbs, I | Forbs and Grasses | | 0 | | 0 | 0 | | | Forbs and Grasses | 0 | 0 | | 0 | 0 | |
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| Resid | dential | and | Urba | an S | tress | 3018 | | | Hydrolo | gy S | tres | sors | | | | | Agricult | ural & | & Ru | ral S | itres | sors | |
| FIII bubble | If pres | ent - F | Plot | 1 | 2 | 3 | Flag | Fili bubble | if prese | ent - F | Plot | 1 | 2 | 3 | Flag | Fili bubble | if prese | nt - Pi | ot | 1 | 2 | 3 | Flag |
| Road - gra | vei | | | 0 | 0 | 0 | | Ditches, Ci | | | | 0 | 0 | 0 | 4 | Pasture/Ha | ıy | | | 0 | 0 | 0 | 4 |
| Road - two | lane | | | 0 | 0 | 0 | | Dike/Dam/ | | Bed | | 0 | 0 | 0 | | Range | | | | 0 | 0 | 0 | |
| Road - fou | rlane | | | 0 | 0 | 0 | X. | Water Leve | el Contro | Stru | cture | 0 | 0 | 0 | | Row Crops | | | | 0 | 0 | 0 | |
| Parking Lo | t/Paven | nent | | 0 | 0 | 0 | × . | Excavation | ı, Dredgir | ng | | 0 | 0 | 0 | | Fallow Field ROW CROP FIELD | D) | | NG | 0 | 0 | 0 | |
| Golf Cours | e | | | 0 | 0 | 0 | | Fill/Spoil B | | Codim | | 0 | 0 | 0 | | Fallow Field SHRUBS, TRE | | ASS, | | 0 | 0 | 0 | |
| Lawn/Park | | | | 0 | 0 | 0 | | (UNVEGETAT | ED) | | | 0 | 0 | 0 | | Nursery | | | | 0 | 0 | 0 | |
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| Fill bubble | | | | 1 | 2 | 3 | | Fili bubble | if proces | nt D | lat | 1 | 2 | 3 | Fiag | Fili bubbl | | and E | 2104 | 1 | 2 | 3 | Floor |
| Oil Drilling | n prese | BIIL - 1 | 100 | 0 | 0 | 0 | | | | 11. P | 101 | 0 | 0 | 0 | riay | | | Stof - L | 101 | | 0 | | Flag |
| Gas Wells | | | | 0 | 0 | 0 | | Forest Clear | | | | 0 | 0 | 0 | | Herbicide U | | | | 0 | _ | 0 | |
| Mine (surfa | | _ | | 0 | 0 | 0 | | Forest Selec | - | | | 0 | 0 | 0 | | Mowing/Shr | up Cutting | , | | _ | 의 | | |
| Mine (unde | | 1) | | | | | | Tree Canop | | ory | | | | — | | Trails Soil Compa | ction | | - | 의 | 의 | 0 | |
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| | ig codes: iffer San | | | | | Expl | i, U = Si iain aii fi | uspect measu lags in comm | rement., ent sectio | F1,F2 in on t | , etc. i he ba | = misc ck of (| :. flags | assi m | gned by | each field cr | ew. | 2 | 2428 | 168 | 304 | | |

| FC | ORM | B- | 1: E | BUFF | ER SAMPLE PLOTS - | TAI | RGE | TEI | D AL | IEN SPECIES (Back) Reviewed b | y (initia | if): | | • |
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| Confirm | a fill | ed da | ta bı | ıbbie iı | ndicates presence and an unf | filled | bubb | ie Inc | dicates | absence by filling in this bub | ble | | | |
| Fili bubbie If present - Piot | 1 | 2 | 3 | Flag | Fill bubble If present - Plot | 1 | 2 | 3 | Fiag | Fili bubble if present - Plot | 1 | 2 | 3 | Fla |
| 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 | • | • | • | |
| 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 | |
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| • | Site ID: PCAPH: 1357 FORM B-1: BUFFER SAMPLE PLOTS (Front) Reviewed by (Initial): DATE: D 7 / 3 (/ a 0 (3 | | | | | | | | | | | | | | | | | | | | | | |
| Site ID: PCAP II: 1357 Location: Fill in bubble(s) if plot(s) could not be s | | | | | | | | | | | | | | 31 | a | 0 | (| 3 | 19 | | | | |
| Locati | on: | | | (Marky | | | | | FIII | in b | ubb | | | lot(s | s) cou | ild not be | sampled | and 1 | lag - | → | | | |
| O AA Center O N | | | | | | | | | | | | | | | | | | | Ü | | | | |
| Fill in bubble Strata Section | Buffer Natural Cover Strata Ill in bubbles for all that apply: Canopy Type: D = Deciduous; E = Evergreen. Leaf Type: B = Broadleaf; N = Needle Leaf. Absent: No tree canopy. Itrata 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 | | | | | | | | | | | | | | | >75%) | | | | | | | |
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| Big Trees (> | 0.3m DBH | 0 | 0 | 0 | <u> </u> | ® | | Big Trees (> | 0.3m DBH) | 0 | \odot | 0 | | | | Big Trees | (>0.3m DBH) | $\mathfrak{D} \mathbb{O}$ | 0 | 0 | 0 | | |
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| Woody Shrubs (0.5m | s, Saplings -5m HIGH) | | 0 | 0 | | 0 | | | 5m HIGH) | 0 | 0 | 0 | <u> </u> | ® | | (0.5 | ibs, Saplings im-5m HIGH) | $\mathbb{D} \mathbb{O}$ | 0 | <u> </u> | 0 | | |
| | .5m HIGH) | 10 | | 0 | 0 | 0 | | | 5m HIGH) | 0 | 0 | • | <u> </u> | <u>⊙</u> | | (• | | | 0 | 0 | 0 | | |
| Herbs, F | orbs and Grasses | | | 0 | <u> </u> | 0 | | Herbs, F | orbs and Grasses | 0 | • | 0 | 0 | <u> </u> | | Herbs | Forbs and Grasses | <u> </u> | 0 | | <u> </u> | | |
| Bare | ground | | 0 | 0 | <u> </u> | 0 | | Bare | ground. | | 0 | <u> </u> | <u> </u> | <u>⊙</u> | | Bar | e ground | 9 / O | 0 | <u> </u> | <u> </u> | | |
| Lit | ter, duff | 0 | 0 | 0 | 0 | | | Lit | ter, duff | 0 | 0 | M | (1) | <u> </u> | | L | itter, duff | $\mathbb{D} \mathbb{O}$ | 0 | 0 | <u> </u> | | |
| | Rock | 0 | | 0 | ② | 0 | | • | Rock | 0 | 0 | 0 | | ⊙ | , | | Rock (| ⊙ @ | 0 | 0 | 0 | | |
| | Water | | 0 | 0 | 0 | 0 | | | Water | 0 | \odot | 0 | | ⊙ | | | | | 0 | 0 | 0 | | |
| | ubmerged egetation | | 0 | 0 | ① | 0 | | | bmerged egetation | | 0 | 0 | 0 | ⊙ | | | Submerged Vegetation | | 0 | 0 | 0 | | |
| Stress | or Pre | senc | e/Ab | senc | e - (| Confi | rm that | a filled data | bubble ir | ndicat | es pr | esen | e and | an ı | unfilled | bubble indi | cates absen | ce by fil | ing th | s bub | ble. | • | |
| Resi | dential | and | Urb | an Si | tress | sors | | | lydrolo | gy S | tres | sors | | | | | Agricultur | al & R | ıral S | tres | sors | | |
| FIII bubble | o If pres | ent - | Plot | 1 | 2 | 3 | Flag | FIII bubble if present - Plot | | | 1 | 2 | 3 | Flag | Fill bubble | if present | - Plot | 1 | 2 | 3 | Flag | | |
| Road - gra | avel | | | 0 | 0 | 0 | | Ditches, Ch | nanneliza | ation | | 0 | 0 | 0 | | Pasture/Ha | | 0 | 0 | 0 | | | |
| Road - tw | o lane | | | 0 | 0 | • | | Dike/Dam/Road/RR Bed (IMPEDE FLOW) | | | 0 | 0 | 0 | | Range | | 0 | 0 | 0 | | | | |
| Road - for | ur lane | | | 0 | 0 | 0 | | Water Leve | | Stru | cture | 0 | 0 | 0 | | Row Crops | | | | 0 | 0 | | |
| Parking L | ot/Paver | nent | | 0 | 0 | 0 | | Excavation, Dredging | | | 0 | 0 | 0 | | Fallow Field (RECENT-RESTING ROW CROP FIELD) | | | | 0 | 0 | | | |
| Golf Cour | se | | | 0 | 0 | 0 | | Fill/Spoil Banks | | | 0 | 0 | 0 | | Fallow Field (OLD - GRASS, SHRUBS, TREES) | | | | 0 | <u></u> | , | | |
| Lawn/Parl | k | | | 0 | 0 | • | | Freshly Deposited Sediment (UNVEGETATED) | | | | 0 | 0 | 0 | | Nursery | | | | 0 | 0 | | |
| Suburban | Resider | ntial | | 0 | 0 | 0 | | Soil Loss/Root Exposure | | | | 0 | 0 | 0 | | Dairy | | | | 0 | 의 | | |
| Urban/Mu | Itifamily | 67 | | 0 | 0 | 0 | | Wall/Riprap | | | 0 | 0 | | | Orchard | | | | 0 | 이 | | | |
| Landfil! | | | | 0 | 0 | 0 | | Inlets, Outlets Point Source/Pipe | | | | 0 | 0 | 0 | | Confined Animal Feeding | | | | 0 | 0 | | |
| Dumping | | | | 0 | 0 | 0 | | (EFFLUENT O | RSTORMV | VATER | 1 | 0 | 0 | 0 | | Rural Resi | dential | | 0 | 0 | 이 | | |
| Trash | | | | 0 | • | 0 | | (SHEETFLOW |) | input | 1 | 0 | 0 | 0 | | Gravel Pit | | | 0 | 0 | 0 | | |
| Other: | | | | 0 | 0 | 0 | | Other: M | eer | | | 0 | (4) | 0 | | Irrigation | | | 0 | 0 | 0 | | |
| Other: | | _ | | 0 | 0 | 0 | | Other: | | _ | | 0 | 0 | 0 | | | | | 0 | 0 | 이 | | |
| Indu | strial C |)evel | opm | ent S | Stres | son | В | 275 | | 1/10 | | | labit | at/V | egeta | tion Stress | sors | | | | | | |
| Fill bubble | e if pres | ent - | Plot | 1 | 2 | 3 | Flag | Fili bubble | if prese | nt - F | lot | 1 | 2 | 3 | Flag | Fill bubb | le if presen | t - Piot | 1 | 2 | 3 | Flag | |
| Oil Drilling |) | | | 0 | 0 | 0 | | Forest Clear | Cut | | | 0 | 0 | 0 | | Herbicide (| Jse | | 0 | 0 | 0 | | |
| Gas Wells | 5 | | | 0 | 0 | 0 | | Forest Selective Cut | | | 0 | 0 | 0 | | Mowing/Shrub Cutting | | | 0 | 0 | 0 | | | |
| Mine (sur | Mine (surface) | | | Tree Plantal | tion | | 111000 | 0 | 0 | 0 | | Trails | | | 0 | 0 | 0 | | | | | | |
| Mine (und | lergroun | d) | | 0 | 0 | 0 | | Tree Canop (INSECT) | y Herbivo | огу | | 0 | 0 | 0 | | Soil Compa (ANIMAL OR H | action IUMAN) | | 0 | 0 | 0 | | |
| Military | | | | 0 | 0 | 0 | | Shrub Layer | | d | | 0 | 0 | 0 | | | nicle damage | • | 0 | 0 | 0 | | |
| Other: | | 7- | | 0 | 0 | 0 | | Highly Graz | ed Grass | es | | 0 | 0 | 0 | | Soil erosion | (FROM WIND | WATER, | 0 | 0 | 0 | | |
| Other: | | | | 0 | 0 | 0 | | Recently Bu | | est | | 0 | 0 | 0 | | Other: | | | 0 | 0 | 0 | | |
| Other: | | W dele | | 0 | 0 | 0 | | Recently Bu | med Gra | sslar | d | 0 | 0 | 0 | | Other: | | | 0 | 0 | 0 | | |
| | iag codes | s: K = | No me | _ | | | e, U = S | (BLACKENED) uspect measu | rement. | F1,F2 | , etc. | _ | | | | | rew. | 2.42 | Charles Town | - | | 7 | |
| | Suffer Sa | | | | | Exp | lain ail f | lags in comm | ent sectio | n on t | he ba | ick of | this fo | m | | THE PLAN | | 242 | 8168 | 3U4 | | | |

| Site ID: | PC | AP | 14 | : 13. | 57 | DAT | E: 1 | 7 7 | 71 | Reviewed b | y (111100 | | |
|--|----------------------------------|-----------------|--------------------------|--|---|-----------------------------|---|---------------------------|---------------------------------|--|-----------|------|-------------------|
| | | | | | | | - | | | absence by filling in this bub | blo | | - |
| Fill bubble if present - Plot | 1 | 2 | 3 | | Fill bubble if present - Piot | 1 | 2 | 3 | Flag | | 1 | 2 | 3 |
| 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 |
| 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 Hemiock | 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 |
| | | | | Marie. | | | | | SS 3510 | Other: | 0 | 0 | 0 |
| | | | | 777 | PLOT COORE | MAIA | TEC | | | | | | 9 |
| Buffer Plot 3 can not be accided a second and buffer Plot 3 can not be accided and buffer and box, and describe where | essective contents | ordir of P | cts a nates lot 3 | were t | coordinates will indicate the loca aken and why in the comment s sible or at the center of the last | ation (section acces | of the n belo ssible | trans | sect. Fi he cool er Plot. | TRANSECT. This is important to the "nearest practicable local region of the nearest practicable local regions of the nearest practicable local regions." | Pacific | hubb | lo GH |
| ag box, and describe where the differ placed as close to the diffe | essectifer Trathe contenter | of P | cts a nates flot 3 | were to as positive): | coordinates will indicate the local aken and why in the comment stable or at the center of the last | ation disection access | of the n belossible | transow. Ti Buffe | sect. Fi he coor er Plot. | Il in the "nearest practicable locardinates of the nearest practicable locardinates of | ation" | hubb | le, fill can l |
| Plots are centered on the Buffag box, and describe where dither placed as close to the control of Coordinate O AA CENTER O N3 | essectifer Trathe contenter | of P | cts a nates flot 3 | were to as positive): | coordinates will indicate the loca aken and why in the comment s sible or at the center of the last | etical | of the n belossible | trans bw. Ti Buffe catio | sect. Fi he coor er Plot. | Il in the "nearest practicable loca dinates of the nearest practicab | ation" | hubb | le, fill can l |
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|--|------------------|------------|------------|------------|------------------|------------------|--|------------------|--------------|------------|--------|-----------|-------------|---|------------------------------|------------|-------------|--------|--------|------------|------|
| FORM B-1: BUFFER SAMPLE PLOTS (Front) Reviewed by (Initial): DATE: 0 7 / 3 1 2 0 1 3 | | | | | | | | | | | | | | • | | | | | | | |
| Site ID: | | CAS | 2 14: | 13 | 35 | 7 | | DATE: 07/31/2013 | | | | | | | | | | | | | |
| Location | | | | FIII in t | oubt | ole(s |) if p | iot(s | s) cou | ald not be | sample | ed ar | nd fl | ag - | → | Γ | | | | | |
| O AA Cei | nter | ON | 0 | S | 01 | E 💣 | | O Plot | | | Plot | | | 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. | | | | | | | | | | | | | | | | | | | | | |
| 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 = Heart | | | | | | | | | | | | | | | vy (40- | -75%) | ; 4 = V | /ery H | eavy (| (>75%) | |
| Buffer Ca | anopy T | ype: (| 1 (| IA C | bsen | it: O | Buffer Ca | пору Ту | pe: [|) (|) AI | bsent | t: () | Buffer | Canopy | Туре | e: 6 | 0 | Ab | sent | : 0 |
| Plot 1 | Leaf Type: Flag | | | | Plot 2 | Leaf Ty | pe: (| 9 (| ♥ | | | Plot 3 | : 🙆 | 0 | , | | Flag | | | | |
| Big Trees (>0.3r | es (>0.3m DBH) | | | | Big Trees (>0.3m | овн) 🛈 | | 0 | 0 | 0 | | Big Trees | (>0.3m DBH) | 0 | 0 | 0 | 0 | 0 | | | |
| Small Trees (<0.3r | m DBH) | <u>ا (</u> | 0 | (1) | 0 | | Small Trees (<0.3m | DBH) | | 0 | 0 | 0 | | Small Trees | (<0.3m DBH) | 0 | 0 | | 0 | 0 | |
| Woody Shrubs, Sa (0.5m-5m | | D 0 | 0 | 0 | 0 | | Woody Shrubs, Sap (0.5m-5m H | | 0 | 0 | | 0 | | | ubs, Saplings im-5m HIGH) | | 0 | 0 | 0 | 0 | |
| Woody Shrubs, Sa (<0.5m | HIGH) | D 0 | 0 | 0 | 0 | | Woody Shrubs, Sap (<0.5m H | | | 0 | 0 | 0 | | Woody Shru | bs, Saplings (0.5m HIGH) | | 0 | | 0 | 0 | |
| Herbs, Forb Gra | s and asses | 0 | 0 | 0 | 0 | | Herbs, Forbs Gra | and o | 0 | 0 | 0 | 0 | | Herbs | Forbs and Grasses | 0 | 0 | 0 | 0 | (2) | |
| Bare gro | ound 🬘 | 0 | 0 | 0 | 0 | | Bare gro | | 0 | 0 | 0 | 0 | | Bar | e ground | (2) | 0 | 0 | 0 | 0 | |
| Litter, | duff (| D C | 0 | 0 | | į | Litter, | duff 💿 | 0 | 0 | 0 | | | L | itter, duff | (| 0 | 0 | 0 | 0 | |
| F | Rock d | | 0 | 0 | 0 | | R | ock 🌑 | 0 | 0 | 0 | 0 | | | Rock | (1) | 0 | 0 | 0 | 0 | |
| N | Vater (|) C | 0 | 0 | 0 | | Wi | ater 🐠 | 0 | 0 | 0 | 0 | | | Water | | 0 | 0 | 0 | 0 | |
| Subm Vege | erged etation | | 0 | 0 | 0 | | Submer Vegeta | | 0 | 0 | 0 | 0 | | | Submerged Vegetation | 6 | 0 | 0 | 0 | 0 | |
| | | nce/A | bsen | ce - (| Confi | im that | a filled data bubl | | ites p | resen | ce an | d an | unfilled | | | ence b | y filli | | s bub | ble. | 0 |
| Reside | ntial an | nd Url | ban S | itres | sors | | Hyd | rology S | itres | sors | | | A ST | | Agricultu | ural 8 | Ru | ral S | tres | sors | |
| FIII bubble if | present | - Plot | 1 | 2 | 3 | Flag | FIII bubble if p | resent - | Plot | 1 | 2 | 3 | Flag | Fill bubble | if preser | nt - Pi | ot] | 1 | 2 | 3 | Flag |
| Road - grave | 1 | | 0 | 0 | 0 | | Ditches, Chann | | | 0 | 0 | 0 | | Pasture/Ha | у | 771 | | 0 | 0 | 0 | |
| Road - two la | ne | | 0 | 0 | 0 | | Dike/Dam/Road | J/RR Bed | | 0 | 0 | 0 | | Range | | | | 0 | 0 | 0 | |
| Road - four la | ane | | 0 | 0 | 0 | | Water Level Co | ontrol Str | ucture | 0 | 0 | 0 | | Row Crops | | | | 0 | 0 | 0 | |
| Parking Lot/P | avemen | nt | 0 | 0 | 0 | | Excavation, Dre | adging | | 0 | 0 | 0 | 70. | Fallow Field (RECENT-RESTING ROW CROP FIELD) | | | | 0 | 0 | 0 | |
| Golf Course | | | 0 | 0 | 0 | | Fill/Spoil Banks | | | 0 | 0 | 0 | | Fallow Field (oLD - GRASS, SHRUBS, TREES) | | | | 0 | 0 | 0 | |
| Lawn/Park | | | 0 | 0 | 0 | | Freshly Deposited Sediment (UNVEGETATED) | | | 0 | 0 | 0 | | Nursery | | | | 0 | 0 | 0 | |
| Suburban Re | | 1 | 0 | 0 | 0 | | Soil Loss/Root Exposure | | | 0 | 0 | 0 | | Dairy | | | | 0 | 0 | 0 | |
| Urban/Multifa | mily | | 0 | ō | 0 | | Wall/Riprap | | | 0 | 0 | 0 | | Orchard | | | | 9 | 0 | 0 | |
| Landfill | | | 0 | 0 | 0 | | Inlets, Outlets Point Source/Pipe | | | 0 | 0 | 0 | | Confined Animal Feeding | | | | 0 | | 0 | |
| Dumping | | | 0 | 0 | 0 | | (EFFLUENT OR STORMWATER) | | | 0 | 0 | 0 | | Rural Residential | | | | 0 | | 0 | |
| Trash | | | 10 | 0 | 0 | | (SHEETFLOW) | aocp. | | 10 | 0 | 0 | | Gravel Pit | | | - | | | 0 | |
| Other: | | | - 으 | 0 | 0 | | Other: | | | 0 | 0 | 0 | | Irrigation | | | - | 의 | 의 | 0 | |
| Other: | ial Day | oloni | O nent | O | 0 | | Otrier | | | 0 | O | O | acetal | Other: | 200 | TEN. | _ | 0 | 이 | 0 | |
| | | _ | _ | | | | Citi bubble if no | | 71.4 | 1 | | | | FIII bubble if present - Plot | | | | | 2 1 | 2 | |
| Oil Drilling | present | - PIO | 1 | 2 | 3 | Flag | Fill bubble if pr | | Plot | 1 | 2 | 3 | Flag | | | nt - r | 101 | 1 | 2 | | Flag |
| | | 1441 | 10 | 0 | | | Forest Clear Cut | | | 0 | 0 | 0 | | Herbicide U | | | + | | 의 | 0 | |
| Gas Wells | | | 10 | 0 | | | Forest Selective | Cut | | 0 | 0 | 0 | | Mowing/Shr | rub Cutting |) | - | | 9 | 0 | · . |
| Mine (surface | _ | | 0 | 0 | 0 | | Tree Plantation Tree Canopy Herbivory | | | 0 | 0 | 0 | | Trails Soil Compaction | | - | 이 | 0 | 0 | | |
| Mine (underg | round) | | 0 | 0 | 0 | | (INSECT) | | 1 | 0 | 0 | 0 | | (ANIMAL OR H | | | - | 0 | 0 | 0 | |
| Military | | n | 0 | 0 | 0 | | Shrub Layer Bro | C) | | 0 | 0 | 0 | | Offroad veh | | - | | 0 | 0 | 0 | |
| Other: | | | 0 | 0 | 0 | | Highly Grazed G |) | | 0 | 0 | 0 | | Soil erosion (FROM WIND, WATER, OR OVERUSE) | | | TER, | 0 | 0 | 0 | |
| Other: | | | 0 | 0 | 0 | | Recently Burned Canopy | | | 0 | 0 | 0 | | Other: Tree Gall | | | | 0 | • | 0 | |
| Other: | | | 0 | 0 | 0 | | Recently Burned (BLACKENED) | Grassla | nd | 0 | 0 | 0 | | Other: | | | | 0 | 0 | 0 | |
| | codes: K | | | | Exp | lain all fl | uspect measureme lags in comment s | | | | | | igned by | y each field cr | ew. | 2 | 428 | 3168 | 304 | | |

Buffer Sample Plots 05/27/2011

Maching of his 1959

| • FO | RM | B-1 | l: E | BUFF | ER SAMPLE PLOTS - | TAF | RGE | TEI |) ALI | EN SPECIES (Back) Reviewed by | / (Initia | D: | | |
|--|---------|------|-------|-------------------------------|--|---------|-------------|-------|-------------------------------|---------------------------------|-----------|------|------|--------|
| Site ID: | PC | AP | Hi | 135 | 7 | DAT | E: <u>C</u> | 7.7 | 2.1. | 3.1.12.0.13 | | | | |
| Confirm | a fille | d da | ta bı | ubbie i | ndicates presence and an unf | ilied I | oubbl | e Inc | dicates | absence by filling in this bubi | ole | | | |
| Fill bubble if present - Plot | TITT | | Flag | Fill bubble if present - Plot | 1 2 | | 3 | Flag | 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 | 0 | |
| Canada Thistle | 0 | 0 | 0 | | Leafy Spurge | 0 | 0 | 0 | | Other: | 0 | 0 | 0 | |
| | | | | | | | | | | Other: | 0 | 0 | 0 | |
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| Buffer Sample Po | oints - | Targ | getec | Alien ! | Species 05/27/2011 | | | | | | | | | |