

### **List of Tables**

Table C-1: Vascular Plant Species Inventory

Table C-2: Description of Ecological Land Classification (ELC) Communities

Table C-3: Water Quality Results for Reaches 1 and 2 (June 26, 2012)

Table C-4: Habitat Descriptions for Reaches 1 and 2 (June 26, 2012)

Table C-5: Watercourse Characteristics

Table C-6: Wildlife Species Inventory

Table C-1: Vascular Plant Species Inventory

| Scientific Name    |                                  | Common Name              | Provincial<br>Status <sup>1</sup> |
|--------------------|----------------------------------|--------------------------|-----------------------------------|
| PTERIDOPHYTES      |                                  | FERNS & ALLIES           |                                   |
| Dryopteridaceae    |                                  | Wood Fern Family         |                                   |
| Athyrium           | filix-femina var. angustum       | Northern Lady Fern       | S5                                |
| Dryopteris         | carthusiana                      | Spinulose Wood Fern      | S5                                |
| Matteuccia         | struthiopteris var. pensylvanica | Ostrich Fern             | S5                                |
| Onoclea            | sensibilis                       | Sensitive Fern           | \$5                               |
| Equisetaceae       |                                  | Horsetail Family         |                                   |
| Equisetum          | arvense                          | Field Horsetail          | S5                                |
| <u>GYMNOSPERMS</u> |                                  | <u>CONIFERS</u>          |                                   |
| Cupressaceae       |                                  | Cedar Family             |                                   |
| Juniperus          | virginiana                       | Eastern Red Cedar        | \$5                               |
| Pinaceae           |                                  | Pine Family              |                                   |
| Picea              | glauca                           | White Spruce             | \$5                               |
| Pinus              | strobus                          | Eastern White Pine       | S5                                |
| Pinus              | sylvestris                       | Scotch Pine              | SE5                               |
| DICOTYLEDONS       |                                  | <u>DICOTS</u>            |                                   |
| . "                |                                  | Sumac or Cashew          |                                   |
| Anacardiaceae      |                                  | Family                   | 6.5                               |
| Rhus               | typhina                          | Staghorn Sumac           | S5                                |
| Toxicodendron      | radicans var. rydbergii          | Western Poison-ivy       | S5                                |
| Apiaceae           |                                  | Carrot or Parsley Family |                                   |
| Aegopodium         | podagraria                       | Goutweed                 | SE5                               |
| Daucus             | carota                           | Wild Carrot              | SE5                               |
| Apocynaceae        |                                  | Dogbane Family           |                                   |
| Asclepias          | syriaca                          | Common Milkweed          | S <i>5</i>                        |
| Cynanchum          | rossicum                         | Swallow-wort             | SE5                               |
| Achillea           | millefolium ssp. millefolium     | Common Yarrow            | SE <b>š</b>                       |
| Arctium            | minus                            | Common Burdock           | SE5                               |
| Cirsium            | arvense                          | Canada Thistle           | SE5                               |
| Erigeron           | annuus                           | Annual Fleabane          | S5                                |
| Erigeron           | strigosus                        | Daisy Fleabane           | S5                                |
| Eupatorium         | maculatum var. maculatum         | Spotted Joe-pye-weed     | \$5                               |
|                    |                                  |                          |                                   |

| Scientific Name |                                | Common Name              | Provincial<br>Status <sup>1</sup> |
|-----------------|--------------------------------|--------------------------|-----------------------------------|
| .eucanthemum    | vulgare                        | Ox-eye Daisy             | SE5                               |
| Solidago        | altissima ssp. altissima       | Tall Goldenrod           | S5                                |
| Solidago        | flexicaulis                    | Zig-zag Goldenrod        | S5                                |
| Solidago        | juncea                         | Early Goldenrod          | S5                                |
| Symphyotrichum  | cordifolium                    | Heart-leaved Aster       | S5                                |
| Symphyotrichum  | lanceolatum ssp. lanceolatum   | White Panicled Aster     | S5                                |
| Symphyotrichum  | lateriflorum var. lateriflorum | Calico Aster             | S5                                |
| Symphyotrichum  | puniceum var. puniceum         | Purple-stemmed Aster     | S5                                |
| Taraxacum       | officinale                     | Common Dandelion         | SE5                               |
| Tussilago       | farfara                        | Coltsfoot                | SE5                               |
| Balsaminaceae   |                                | Touch-me-not Family      |                                   |
| mpatiens        | capensis                       | Spotted Touch-me-not     | S5                                |
| Berberidaceae   |                                | <b>Barberry Family</b>   |                                   |
| Caulophyllum    | thalictroides                  | Blue Cohosh              | S5                                |
| Podophyllum     | peltatum                       | May-apple                | S5                                |
| Betulaceae      |                                | Birch Family             |                                   |
| Betula          | papyrifera                     | White Birch              | S5                                |
| Ostrya          | virginiana                     | Hop Hornbeam             | S5                                |
| Caprifoliaceae  |                                | Honeysuckle Family       |                                   |
| onicera         | tatarica                       | Tartarian Honeysuckle    | SE5                               |
| Sambucus        | canadensis                     | Common Elderberry        | S5                                |
| Sambucus        | racemosa ssp. pubens           | Red-berried Elderberry   | S5                                |
| /iburnum        | lentago                        | Nannyberry               | S5                                |
| /iburnum        | opulus                         | Guelder Rose             | SE4                               |
| Cornaceae       |                                | Dogwood Family           |                                   |
| Cornus          | alternifolia                   | Alternate-leaved Dogwood | S5                                |
| Cornus          | amomum ssp. obliqua            | Silky Dogwood            | S5                                |
| Cornus          | stolonifera                    | Red-osier Dogwood        | S5                                |
| Cucurbitaceae   |                                | <b>Gourd Family</b>      |                                   |
| Echinocystis    | lobata                         | Prickly Cucumber         | S5                                |
| -<br>abaceae    |                                | Pea Family               |                                   |
| .otus           | corniculatus                   | Bird's-foot Trefoil      | SE5                               |
| Melilotus       | alba                           | White Sweet-clover       | SE5                               |
| Robinia         | pseudo-acacia                  | Black Locust             | SE5                               |
| Trifolium       | pratense                       | Red Clover               | SE5                               |

| Scientific Name |                           | Common Name                            | Provincial<br>Status <sup>1</sup> |
|-----------------|---------------------------|----------------------------------------|-----------------------------------|
| Vicia           | cracca                    | Tufted Vetch                           | SE5                               |
| Fagaceae        |                           | Beech Family                           |                                   |
| Fagus           | grandifolia               | American Beech                         | S5                                |
| Geraniaceae     |                           | Geranium Family                        |                                   |
| Geranium        | robertianum               | Herb-robert                            | SE5                               |
| Grossulariaceae |                           | Currant Family                         |                                   |
| Ribes           | cynosbati                 | Prickly Gooseberry                     | S5                                |
| Guttiferae      |                           | St. John's-wort Family                 |                                   |
| Hypericum       | perforatum                | Common St. John's-wort                 | SE5                               |
| Juglandaceae    |                           | Walnut Family                          |                                   |
| luglans         | cinerea                   | Butternut                              | 235                               |
| Lamiaceae       |                           | Mint Family                            |                                   |
| Mentha          | arvensis ssp. borealis    | American Wild Mint                     | \$5                               |
| Oleaceae        |                           | Olive Family                           |                                   |
| Fraxinus        | americana                 | White Ash                              | S5                                |
| Fraxinus        | pennsylvanica             | Red Ash                                | \$5                               |
| 0               |                           | Evening-primrose                       |                                   |
| Onagraceae      |                           | <b>Family</b><br>Yellowish Enchanter's |                                   |
| Circaea         | lutetiana ssp. canadensis | Nightshade                             | S5                                |
| Epilobium       | hirsutum                  | Great Hairy Willow-herb                | SE5                               |
| Papaveraceae    |                           | Poppy Family                           |                                   |
| Sanguinaria     | canadensis                | Bloodroot                              | \$5                               |
| Plantaginaceae  |                           | Plantain Family                        |                                   |
| Plantago        | lanceolata                | Ribgrass                               | SE5                               |
| Polygonaceae    |                           | Smartweed Family                       |                                   |
| Rumex           | crispus                   | Curly-leaf Dock                        | SE5                               |
| Pyrolaceae      |                           | Wintergreen Family                     |                                   |
| Pyrola          | elliptica                 | Shinleaf                               | \$5                               |
| Ranunculaceae   |                           | Buttercup Family                       |                                   |
| Actaea          | pachypoda                 | White Baneberry                        | S5                                |
| Actaea          | rubra                     | Red Baneberry                          | S5                                |

| Scientific Name  |                            | Common Name                | Provincio<br>Status <sup>1</sup> |
|------------------|----------------------------|----------------------------|----------------------------------|
| Anemone          | acutiloba                  | Sharp-lobed Hepatica       | S5                               |
| Anemone          | virginiana var. virginiana | Thimbleweed                | S5                               |
| Ranunculus       | abortivus                  | Kidney-leaf Buttercup      | S5                               |
| Ranunculus       | acris                      | Tall Buttercup             | SE5                              |
| Rhamnaceae       |                            | <b>Buckthorn Family</b>    |                                  |
| Rhamnus          | cathartica                 | Common Buckthorn           | SE5                              |
| Rosaceae         |                            | Rose Family                |                                  |
| Crataegus        | monogyna                   | English Hawthorn           | SE5                              |
| Fragaria         | vesca ssp. americana       | Woodland Strawberry        | S5                               |
| Fragaria         | virginiana ssp. virginiana | Scarlet Strawberry         | SU                               |
| Geum             | canadense                  | White Avens                | \$5                              |
| Malus            | pumila                     | Common Crabapple           | SE5                              |
| Prunus           | serotina                   | Black Cherry               | S5                               |
| Prunus           | virginiana ssp. virginiana | Choke Cherry               | S5                               |
| Rosa             | multiflora                 | Multiflora Rose            | SE4                              |
| Rubus            | allegheniensis             | Alleghany Blackberry       | S5                               |
| Rubus            | idaeus ssp. strigosus      | Wild Red Raspberry         | S5                               |
| Rubus            | occidentalis               | Thimble-berry              | S5                               |
| Rubus            | odoratus                   | Purple Flowering Raspberry | S5                               |
| Sorbus           | aucuparia                  | European Mountain-ash      | SE4                              |
| Rubiaceae        |                            | Madder Family              |                                  |
| Galium           | mollugo                    | White Bedstraw             | SE5                              |
| Salicaceae       |                            | Willow Family              |                                  |
| Populus          | grandidentata              | Large-tooth Aspen          | S5                               |
| Populus          | tremuloides                | Trembling Aspen            | S5                               |
| Salix            | discolor                   | Pussy Willow               | S5                               |
| Salix            | eriocephala                | Missouri Willow            | S5                               |
| Salix            | fragilis                   | Crack Willow               | SE5                              |
| Sapindaceae      |                            | Maple Family               |                                  |
| Acer             | negundo                    | Manitoba Maple             | S5                               |
| Acer             | saccharum                  | Sugar Maple                | \$5                              |
| Scrophulariaceae |                            | Figwort Family             |                                  |
| Verbascum        | thapsus                    | Common Mullein             | SE5                              |
| Solanaceae       |                            | Nightshade Family          |                                  |
| Solanum          | dulcamara                  | Bitter Nightshade          | SE5                              |

| Scientific Name |                            | Common Name               | Provincial<br>Status <sup>1</sup> |
|-----------------|----------------------------|---------------------------|-----------------------------------|
| Tiliaceae       |                            | Linden Family             |                                   |
| Tilia           | americana                  | American Basswood         | S5                                |
| Ulmaceae        |                            | Elm Family                |                                   |
| Ulmus           | americana                  | White Elm                 | \$5                               |
| Jrticaceae      |                            | Nettle Family             |                                   |
| <i>Jrtica</i>   | dioica ssp. gracilis       | American Stinging Nettle  | S5                                |
| /erbenaceae     |                            | Vervain Family            |                                   |
| /erbena         | hastata                    | Blue Vervain              | \$5                               |
| /iolaceae       |                            | Violet Family             |                                   |
| /iola           | pubescens                  | Downy Yellow Violet       | \$5                               |
| /itaceae        |                            | Grape Family              |                                   |
| Parthenocissus  | inserta                    | Inserted Virginia-creeper | S5                                |
| /itis           | riparia                    | Riverbank Grape           | S5                                |
| MONOCOTYLEDONS  |                            | MONOCOTS                  |                                   |
| Araceae         |                            | Arum Family               |                                   |
| Arisaema        | triphyllum ssp. triphyllum | Small Jack-in-the-pulpit  | S5                                |
| Cyperaceae      |                            | Sedge Family              |                                   |
| Carex           | arctata                    | Drooping Wood Sedge       | S5                                |
| Carex           | bebbii                     | Bebb's Sedge              | S5                                |
| Carex           | blanda                     | Woodland Sedge            | S5                                |
| Carex           | cristatella                | Crested Sedge             | S5                                |
| Carex           | gracillima                 | Graceful Sedge            | S5                                |
| Carex           | granularis                 | Meadow Sedge              | S5                                |
| Carex           | pellita                    | Woolly Sedge              | S5                                |
| Carex           | retrorsa                   | Retrorse Sedge            | S5                                |
| Carex           | spicata                    | Spiked Sedge              | SE5                               |
| Carex           | stipata var. stipata       | Awl-fruited Sedge         | S5                                |
| Carex           | vulpinoidea                | Fox Sedge                 | S5                                |
| Scirpus         | atrovirens                 | Dark-green Bulrush        | \$5                               |
| luncaceae       |                            | Rush Family               |                                   |
| luncus          | dudleyi                    | Dudley's Rush             | \$5                               |
| .iliaceae       |                            | Lily Family               |                                   |

| Scientific Name |                            | Common Name               | Provincial<br>Status <sup>1</sup> |
|-----------------|----------------------------|---------------------------|-----------------------------------|
| Allium          | tricoccum                  | Wild Leek                 | S5                                |
| Erythronium     | americanum ssp. americanum | Yellow Dog's-tooth Violet | S5                                |
| Maianthemum     | racemosum ssp. racemosum   | False Solomon's Seal      | \$5                               |
| Trillium        | erectum                    | Purple Trillium           | S5                                |
| Trillium        | grandiflorum               | White Trillium            | S5                                |
| Orchidaceae     |                            | Orchid Family             |                                   |
| Epipactis       | helleborine                | Common Helleborine        | SE5                               |
| Poaceae         |                            | Grass Family              |                                   |
| Agrostis        | gigantea                   | Red-top                   | SE5                               |
| Bromus          | inermis ssp. inermis       | Awnless Brome             | SE5                               |
| Dactylis        | glomerata                  | Orchard Grass             | SE5                               |
| Glyceria        | striata                    | Fowl Meadow Grass         | S4S5                              |
| Phalaris        | arundinacea                | Reed Canary Grass         | S5                                |
| Phleum          | pratense ssp. pratense     | Timothy                   | SE5                               |
| Typhaceae       |                            | Cattail Family            |                                   |
| Турһа           | latifolia                  | Broad-leaved Cattail      | S5                                |

# **Species Diversity**

| Total Species:  | 128 |
|-----------------|-----|
| Native Species: | 90  |
| Exotic Species  | 38  |

<sup>&</sup>lt;sup>1</sup>NHIC (2010a): S5 = secure; S4 = apparently secure; S3 = vulnerable; SU = unrankable; SE = exotic; ? = indicates uncertainty in the assigned rank.

Table C-2: Description of Ecological Land Classification (ELC) Communities

| ELC TYPE                                   | Community Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FOREST (FO)                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Deciduous Forest (FOD)                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| FOD5-1 (3.2 ha)                            | This mature upland community was dominated by sugar maple in the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Dry – Fresh Sugar Maple Deciduous Forest   | canopy, sub-canopy and understory layers, with occasional occurrences of American beech in the canopy and hop hornbeam in the subcanopy. The most abundant ground layer species was enchanter's nightshade, with occasional to abundant occurrences of sugar maple seedings, wild leek, white trillium, drooping woodland sedge, zig-zag goldenrod, and calico aster. The community contained a small inclusion of FODM4-4                                                                                                                                                                             |
| FOD8-1 (1.3 ha)                            | This mid-age, lowland community was situated on both sides of a dry                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Fresh – Moist Poplar Deciduous Forest      | watercourse. The most abundant canopy and sub-canopy species wateremling aspen, with associations of white elm, basswood and Manitoba maple. Butternut was abundant in the sub-canopy. Common crabapple was abundant in the shrub layer along with buckthorn, Manitoba maple, and white elm. Like the FOD5-1 community, enchanter's nightshade dominated the ground cover. Occasional species observed included jack-in-the-pulpit, tall goldenrod, dandelion, woodland strawberry, ostrich fern, graceful sedge, meadow sedge, fowl manna grass, field horsetail, tall buttercup, and white trillium. |
| FODM4-4 (0.2 ha)                           | This community was an inclusion in the larger FOD5-1 community.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Dry – Fresh Ironwood Deciduous Forest Type | Ironwood dominated the canopy, while zig-zag goldenrod was the most abundant ground species.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| CULTURAL (CU)                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Cultural Meadow (CUM)                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| CUM1                                       | This community type occurred in several areas on site as a complex                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Dry – Moist Old Field Meadow               | with CUT1 or THDM4 communities. It typically consisted of a dense layer of ground vegetation species, with little woody vegetation. The most frequently observed species included tufted vetch, white bedstraw, and tall goldenrod, with occasional observations of common st-john's wort, common milkweed, timothy grass, annual fleabane, reed-canary grass, and spiked sedge.                                                                                                                                                                                                                       |

| Cultural Thicket (CUT)                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CUT1 (2.2 ha) Mineral Cultural Thicket                                                                                                                                                       | This community type occurred in several areas on site as a complex with CUM1 communities. These communities generally consisted of shrub layers composed primarily of staghorn sumac, common buckthorn, and red-osier dogwood, with rare to occasional occurrences of pussy willow and regenerating tree species. Riverbank grape and Allegheny blackberry were abundant in the ground layer.                                                                             |
| THDM4 (0.3 & 0.9 ha)  Dry – Fresh Deciduous Regeneration Thicket                                                                                                                             | This community occurred at the eastern edge of the property as a complex with the CUM1 community type. Its composition consisted mainly of regenerating black locust trees, with occasional occurrences of green ash, and rare occurrences of common buckthorn, long-beaked willow, English hawthorn, and other young tree species.                                                                                                                                       |
| MARSH (MA)                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Meadow Marsh (MAM)                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| MAM2-2 (1.9 ha)  Reed-canary Grass Mineral Meadow Marsh, with inclusions of SWT2-5 (0.13 ha) (Redosier Mineral Thicket Swamp) and MAMM1-2 (0.05 ha) (Cattail Graminoid Mineral Meadow Marsh) | This dry meadow marsh community consisted of a ground layer dominated by reed-canary grass, with abundant to occasional occurrences of other herbaceuous species such as swamp aster, tall goldenrod, crested sedge, panicled aster and dark-green bulrush, among others. This community also contained an inclusion of red-osie dogwood mineral thicket swamp, confined to its western edge, and an inclusion of cattail graminoid mineral meadow marsh in its interior. |
|                                                                                                                                                                                              | No surface water was present at the time of the survey.                                                                                                                                                                                                                                                                                                                                                                                                                   |
| MAM2-2 (0.4 ha)  Reed-canary Grass Mineral Meadow Marsh, with an inclusion of SWT2-2 (0.2 ha) (Willow Mineral Thicket Swamp)                                                                 | This dry meadow marsh community consisted of a dense ground layer dominated by reed canary grass, with rare occurrences of curly dock and wild cucumber.  Along its eastern edge was a small inclusion of willow thicket swamp, primarily consisting of Missouri and pussy willows.                                                                                                                                                                                       |
|                                                                                                                                                                                              | No surface water was present at the time of the survey.                                                                                                                                                                                                                                                                                                                                                                                                                   |
| SWAMP (SW)                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Deciduous Swamp (SWD)                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| SWD4-1 (0.4ha) Willow Mineral Deciduous Swamp                                                                                                                                                | This community had a canopy consisting mainly of crack willow, with a ground layer consisting of reed-canary grass with occasional occurrences of spotted-touch-me-not, stinging nettle, Dudley's rush, tall goldenrod, and several sedge species, among others.                                                                                                                                                                                                          |

Table C-3: Water Quality Results for Reaches 1 and 2 (June 26, 2012)

| D                          | Inventory Point Number |                 |                |                  |     |     |                  |
|----------------------------|------------------------|-----------------|----------------|------------------|-----|-----|------------------|
| Parameter                  | 1-1                    | 1-2             | 1-3            | 1-4              | 1-5 | 2-1 | 2-2              |
| Air Temperature (°C)       | 25                     | 25              | 25             | 25               | 25  | 25  | 25               |
| Water Temperature (°C)     | 13.35 @<br>10:13       | 16.09<br>@11:05 | 15.9<br>@11:30 | 15.52 @<br>11:51 | n/a | n/a | 18.53 @<br>14:32 |
| Conductivity (us/cm)       | 390                    | 621             | 627            | 559              | n/a | n/a | 705              |
| Dissolved Oxygen<br>(mg/L) | 10.33                  | 9.48            | 9.13           | 8.91             | n/a | n/a | 8.7              |
| рН                         | 8.88                   | 8.71            | 8.59           | 8.49             | n/a | n/a | 8.51             |

Table C-4: Habitat Descriptions for Reaches 1 and 2 (June 26, 2012)

| Dawanastan                |                                 |                                 | Invent                          | ory Point N                               | lumber                            |                                            |                                     |
|---------------------------|---------------------------------|---------------------------------|---------------------------------|-------------------------------------------|-----------------------------------|--------------------------------------------|-------------------------------------|
| Parameter                 | 1-1                             | 1-2                             | 1-3                             | 1-4                                       | 1-5                               | 2-1                                        | 2-2                                 |
| UTM                       | 672666<br>4872331               | 0672676<br>4872582              | 0672664<br>4872657              | 0672678<br>4872655                        | 0673122<br>4872836                | 0673755<br>4872573                         | 0673761<br>4872613                  |
| water velocity            | slow                            | slow                            | slow                            | slow                                      | no water                          | no water                                   | slow                                |
| In stream cover           | undercut<br>banks and<br>cobble | undercut<br>banks, 10%<br>cover | undercut<br>banks, 50%<br>cover | undercut<br>banks, 40%<br>cover           | undercut<br>banks, 75%<br>cover   | 60% cover                                  | 75% cover                           |
| Bank stability            | well<br>vegetated               | all vegetated                   | 50%<br>eroding                  | 20%<br>eroding                            | all vegetated                     | all<br>vegetated-<br>no defined<br>channel | all vegetated                       |
| substrate                 | cobble,<br>gravel and<br>silt   | silt                            | clay, silt and<br>gravel        | silt, sand,<br>clay, muck<br>and detritus | sand, clay,<br>gravel and<br>silt | silt and<br>detritus                       | clay, muck,<br>detritus and<br>silt |
| Mean wetted width (m)     | 0.5                             | 0.4                             | 0.5                             | 0.5                                       | 1                                 | no defined<br>channel- dry                 | 0.3                                 |
| Bank full (m)             | 2.5                             | 1.5                             | 3                               | 1                                         | 2                                 | no defined<br>channel- dry                 | 1                                   |
| Mean depth<br>(m)         | 0.1                             | 0.15                            | 0.05                            | 0.05                                      | no water                          | no defined<br>channel- dry                 | 0.05                                |
| Max depth (m)             | 0.15                            | 0.3                             | 0.1                             | 0.1                                       | no water                          | no defined<br>channel- dry                 | 0.1                                 |
| Canopy Cover              | 95% closed                      | 80% open                        | 85% closed                      | 80% closed                                | 100% open                         | 90% open                                   | 85% open                            |
| Fish observations         | none                            | none                            | none                            | none                                      | none                              | none                                       | none                                |
| Migratory<br>Obstructions | dry parts of<br>the channel     | debris in<br>water              | dry in some<br>areas            | low water<br>levels                       | dry channel                       | dry channel                                | dry in some<br>areas                |

### **Table C-5: Watercourse Characteristics**

| Watercourse Inventory Point | Description of Watercourse                                                                                                                                                                                                                                                                                                                              |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reach 1                     |                                                                                                                                                                                                                                                                                                                                                         |
| Inventory Point 1-1         | Inventory Point 1-1 was situated within a low lying thick wooded area. Riparian vegetation included deciduous trees in the canopy, and saplings and dense herbaceous vegetation in the understory. The vegetation community was comprised of Raspberry, Riverbank Grape, Wild Strawberry, White Ash and Hawthorn. Canopy closure was approximately 95%. |
|                             | The creek's substrate at Inventory Point 1-1 is comprised of cobble, gravel and silt and has a narrow and shallow channel with very little water (see <b>Table C-4</b> ). Inventory Point 1-1 has little relief along this section of the creek and maintains a relatively direct alignment.                                                            |
| Inventory Point 1-2         | Inventory Point 1-2 is located north of Inventory Point 1-1, along Reach 1. This Inventory Point is surrounded by Reed Canary grass, Riverbank Grape, Goldenrod, Milkweed, Red Osier Dogwood and Raspberry. The canopy was much more open at Inventory Point 1-2 compared to Inventory Point 1-1 (80% open).                                            |
|                             | The creek's substrate was predominately comprised of silt, with a deeper incised channel than Inventory Point 1-1 (see <b>Table C-4</b> ). Inventory Point 1-2 had little relief in this section of the creek and maintained a relatively direct alignment.                                                                                             |
| Inventory Point 1-3         | Inventory Point 1-3 is upstream of 1-2, and exhibited different habitat characteristics than Inventory Points downstream. Inventory Point 1-3 has a riparian area comprised of Jewelweed, various grass species, Manitoba maple and Goldenrod. Its canopy is 85% closed.                                                                                |
|                             | The creek at Inventory Point 1-3 had a substrate comprised of clay, silt and gravel and has a narrow, shallow channel with very little water on the date of investigation. Inventory Point 1-3 had little relief in this section of the creek and maintained a relatively direct alignment.                                                             |

### **Inventory Point 1-4**

Inventory Point 1-4 is located where a channel flowing east to west meets up with the main Reach 1 channel at the northwest portion of the Subject Property. Inventory Point 1-4 is similar to Inventory Point 1-3 and is surrounded by Goldenrod, Jewelweed, Bittersweet Nightshade, Willow sp., Poplar sp., Staghorn Sumac, Manitoba maple, Stinging Nettle and various grass species. The canopy cover at this Inventory Point is 80% closed.

The creek at Inventory Point 1-4 had a substrate comprised of silt, sand, clay, muck and detritus. The channel was narrow and shallow with little water on the date of investigation. Inventory Point 1-4 had little relief in this section of the creek and maintained a relatively direct alignment.

#### **Inventory Point 1-5**

Inventory Point 1-5 is a dry channel at the northeast portion of the Subject Property. The canopy here is 100% open and the riparian vegetation is comprised of Goldenrod, various grass species Riverbank Grape and Wild Cucumber.

The creek at Inventory Point 1-5 had a substrate comprised of sand, clay, gravel and silt. The channel was deeply incised with no water on the date of investigation (see **Table C-4**). Inventory Point 1-5 had little relief in this section of the creek and maintained a relatively direct alignment.

#### Reach 2

#### **Inventory Point 2-1**

Inventory Point 2-1 is located on the east side of the study area, running north to south. At this point along Farewell Creek the channel was dry and undefined. The canopy cover is approximately 90% open. The riparian zone is comprised of Dogwood, jewelweed and various grass species.

The creek at Inventory Point 2-1 had a substrate comprised of silt and detritus. The undefined channel was assessed to be dry on the date of investigation. Inventory Point 2-1 had little relief in this section of the creek and maintained a relatively direct alignment.

| Inventory Point 2-1 | Inventory Point 2-2 was located further upstream from       |
|---------------------|-------------------------------------------------------------|
| -                   | Inventory Point 2-1. Inventory Point 2-2 had a very narrow, |
|                     | almost dry channel, surrounded by Jewelweed and Reed        |
|                     | Canary Grass. The canopy was approximately 85% open.        |

Table C-6: Terrestrial Wildlife Species Inventory

| Scientific Name          | Common Name              | Provincial<br>Status <sup>1</sup> |  |  |
|--------------------------|--------------------------|-----------------------------------|--|--|
| AMPHIBIANS               |                          |                                   |  |  |
| Lithobates pipiens BIRDS | Northern Leopard Frog    | \$5                               |  |  |
| Ardea herodias           | Great Blue Heron         | \$5                               |  |  |
| Cathartes aura           | Turkey Vulture           | S5B                               |  |  |
| Buteo jamaicensis        | Red-tailed Hawk          | S5                                |  |  |
| Charadrius vociferus     | Killdeer                 | S5B, S5N                          |  |  |
| Larus delawarensis       | Ring-billed Gull         | S5B,S4N                           |  |  |
| Zenaida macroura         | Mourning Dove            | \$5                               |  |  |
| Coccyzus americanus      | Yellow-billed Cuckoo     | S4B                               |  |  |
| Picoides villosus        | Hairy Woodpecker         | S5                                |  |  |
| Colaptes auratus         | Northern Flicker         | S4B                               |  |  |
| Empidonax traillii       | Willow Flycatcher        | S5B                               |  |  |
| Empidonax minimus        | Least Flycatcher         | S4B                               |  |  |
| Sayornis phoebe          | Eastern Phoebe           | S5B                               |  |  |
| Myiarchus crinitus       | Great Crested Flycatcher | S4B                               |  |  |
| Tyrannus tyrannus        | Eastern Kingbird         | S4B                               |  |  |
| Vireo gilvus             | Warbling Vireo           | S5B                               |  |  |
| Vireo olivaceus          | Red-eyed Vireo           | S5B                               |  |  |
| Cyanocitta cristata      | Blue Jay                 | \$5                               |  |  |
| Corvus brachyrhynchos    | American Crow            | S5B                               |  |  |
| Eremophila alpestris     | Horned Lark              | S5B                               |  |  |
| Tachycineta bicolor      | Tree Swallow             | S4B                               |  |  |
| Hirundo rustica          | Barn Swallow             | S4B                               |  |  |
| Poecile atricapillus     | Black-capped Chickadee   | S5                                |  |  |
| Sitta canadensis         | Red-breasted Nuthatch    | S5                                |  |  |
| Troglodytes aedon        | House Wren               | S5B                               |  |  |
| Catharus guttatus        | Hermit Thrush            | S5B                               |  |  |
| Hylocichla mustelina     | Wood Thrush              | S4B                               |  |  |
| Turdus migratorius       | American Robin           | S5B                               |  |  |
| Dumetella carolinensis   | Gray Catbird             | S4B                               |  |  |
| Toxostoma rufum          | Brown Thrasher           | S4B                               |  |  |
| Sturnus vulgaris         | European Starling        | SNA                               |  |  |
| Bombycilla cedrorum      | Cedar Waxwing            | S5B                               |  |  |
| Seiurus aurocapilla      | Ovenbird                 | S4B                               |  |  |

| Scientific Name           | Common Name             | Provincial Status <sup>1</sup> S5B |  |  |
|---------------------------|-------------------------|------------------------------------|--|--|
| Mniotilta varia           | Black-and-white Warbler |                                    |  |  |
| Geothlypis philadelphia   | Mourning Warbler        | S4B                                |  |  |
| Geothlypis trichas        | Common Yellowthroat     | S5B                                |  |  |
| Setophaga ruticilla       | American Redstart       | S5B                                |  |  |
| Setophaga petechia        | Yellow Warbler          | S5B                                |  |  |
| Setophaga coronata        | Yellow-rumped Warbler   | S5B                                |  |  |
| Spizella passerina        | Chipping Sparrow        | S5B                                |  |  |
| Spizella pusilla          | Field Sparrow           | S4B                                |  |  |
| Pooecetes gramineus       | Vesper Sparrow          | S4B                                |  |  |
| Passerculus sandwichensis | Savannah Sparrow        | S4B                                |  |  |
| Melospiza melodia         | Song Sparrow            | S5B                                |  |  |
| Cardinalis cardinalis     | Northern Cardinal       | S5                                 |  |  |
| Pheucticus Iudovicianus   | Rose-breasted Grosbeak  | S4B                                |  |  |
| Passerina cyanea          | Indigo Bunting          | S4B                                |  |  |
| Agelaius phoeniceus       | Red-winged Blackbird    | S5                                 |  |  |
| Quiscalus quiscula        | Common Grackle          | S5B                                |  |  |
| Molothrus ater            | Brown-headed Cowbird    | S4B                                |  |  |
| lcterus galbula           | Baltimore Oriole        | S4B                                |  |  |
| Carpodacus mexicanus      | House Finch             | SNA                                |  |  |
| Carduelis tristis         | American Goldfinch      | S5B                                |  |  |
| MAMMALS                   |                         |                                    |  |  |
| Canis latrans             | Coyote                  | \$5                                |  |  |
| Procyon lotor             | Raccoon                 | S5                                 |  |  |
| Mephitis mephitis         | Striped Skunk           | S5                                 |  |  |
| Odocoileus virginianus    | White-tailed Deer       | S5                                 |  |  |
| SUMMARY                   |                         |                                    |  |  |
| Total Amphibians:         | 1                       |                                    |  |  |
| Total Reptiles:           | 0                       |                                    |  |  |
| Total Birds:              | 52                      |                                    |  |  |
| Total Breeding Birds:     | 47                      |                                    |  |  |
| Total Mammals:            | 4                       |                                    |  |  |
| SIGNIFICANT SPECIES       |                         |                                    |  |  |
| Global:                   | 0                       |                                    |  |  |
| National:                 | 1                       |                                    |  |  |
| Provincial:               | 1                       |                                    |  |  |
| Regional:                 | 0                       |                                    |  |  |
| Local:                    | 0                       |                                    |  |  |

<sup>&</sup>lt;sup>1</sup>NHIC (2010a): S5 = secure; S4 = apparently secure; SNA = conservation ranking not applicable; S#B = Breeding Status Rank; S#N = Non Breeding Status Rank.



James Leslie, BHA #145 Stantec Consulting 70 Southgate Drive, Suite 1 Guelph ON N1G 4P5 519-836-6050

Paul Dalmazzi Hydro-One 483 Bay Street South Tower Toronto ON M5G 2P5

January 8, 2014

RE: 2013 Butternut health assessment, Corner of Winchester Road E and Concession Road 7, Clarington ON

Dear Paul Dalmazzi,

This letter is in regard to my re-assessment of the Butternut trees on your property. The original assessment was completed in 2012; this re-assessment was completed specifically for trees within or near the project footprint to accurately account for changes made under Ontario Regulation 242/08. Please read this letter carefully as it contains important information about the Endangered Species Act, 2007 (ESA).

Butternut is listed as an endangered species on the Species at Risk in Ontario List, and as such, it is protected under the ESA from being killed, harmed, or removed. If you are planning to undertake an activity that may affect Butternut, you may be eligible to follow the requirements set out in section 23.7 of Ontario Regulation 242/08 under the ESA, or you may need to seek an authorization under the ESA (e.g., a permit).

Please visit e-laws at the link provided below for the full legal requirements about activities eligible under section 23.7 of Ontario Regulation 242/08 and conditions that must be fulfilled. Information about butternut is also available at <a href="http://www.ontario.ca/environment-and-energy/butternut-trees-your-property">http://www.ontario.ca/environment-and-energy/butternut-trees-your-property</a>. If you are not eligible to follow this regulation, please contact the local Ministry of Natural Resources (MNR) to determine whether you will need to seek a permit. A link to the directory of MNR offices is

also provided below.

If you are eligible to follow the rules in regulation, your first step is to submit this BHA Report and the original data forms which are enclosed in this package (photocopies won't scan properly) to the local MNR District Manager. The BHA Report must be submitted at least 30 days prior to registering to kill, harm, or remove a Butternut tree. During this 30 day period, no Butternut trees (of any category) may be killed, harmed, or removed. During this time period, MNR may

#### Web-links:

Endangered Species Act, 2007

http://www.e-

laws.gov.on.ca/html/statutes/english/elaws\_statut es 07e06 e.htm

Ontario Regulation 242/08 (refer to section 23.7) http://www.e-

laws.gov.on.ca/html/regs/english/elaws regs 080 242 e.htm

Summary of changes related to Butternut <a href="http://www.ontario.ca/environment-and-energy/butternut-trees-your-property">http://www.ontario.ca/environment-and-energy/butternut-trees-your-property</a>

MNRoffice locations

http://www.mnr.gov.on.ca/en/ContactUs/2Column SubPage/STEL02 179002.html contact you for an opportunity to examine the trees that were assessed.

If MNR elects to audit the health assessment, a representative of the MNR will contact you using the information you supplied when you submitted the BHA Report. Following any audit, MNR will advise if there are any problems with the BHA that impact your eligibility for the regulation.

If you are eligible to follow section 23.7 of Ontario Regulation 242/08 and MNR does <u>not</u> contact you regarding an audit during the 30 day period, you may register your activity using the "Notice of Butternut Impact" form on the MNR Registry (link provided) and then proceed with your activity.

The designated Butternut Health Assessor has provided the following assessment of the Butternut trees located and assessed at the above noted property during the site visit on October 8, 2013. Please be advised that Butternut trees other than those identified in this BHA Report must also be assessed by a BHA if a proposed activity may cause them to be killed, harmed or removed.

Please retain this letter and the following BHA Report for your records, along with any other documentation you may receive from the MNR should an audit of the assessment occur.

If you have any questions, please do not hesitate to contact me or the Species at Risk Biologist in the local MNR district office.

Sincerely,

James Leslie

#### Enclosures:

- 1. BHA Report
- 2. Original data forms
- 3. Electronic and printed copies of the Excel data analysis spreadsheet

#### **Explanation of Butternut Categories.**

**Category 1:** Butternut assessed as Category 1 (also referred to as "non-retainable") are affected by butternut canker to such an advanced degree that retaining the tree would not support the protection or recovery of butternut trees in the area in which the tree is located.

**Category 2:** Butternut assessed as Category 2 (also referred to as "retainable") are not affected by butternut canker of the degree to which it is affected by butternut is not too advanced and retaining the tree could support the protection and recovery of butternut trees in the area the tree is located.

**Category 3:** Butternut assessed as Category 3 (also referred to as "archivable" or "putatively resistant") are trees that may be useful in determining resistance to butternut canker. Please note, that these trees are not eligible under section 23.7 of Ontario Regulation 242/08.

**Hybrids:** Trees assessed as hybrid Butternut trees are not protected under the ESA.

Note: Municipal by-laws and other legislation may be applicable.

# **Butternut Health Assessment Report**

James Leslie, BHA #145 Stantec Consulting 70 Southgate Drive, Suite 1 Guelph ON N1G 4P5 519-836-6050

Paul Dalmazzi Hydro-One 483 Bay Street South Tower Toronto ON M5G 2P5

RE: 2013 Butternut health assessment, Corner of Winchester Road E and Concession Road 7, Clarington ON

Date of assessment: October 8, 2013

Total number of trees assessed:12

Stantec Consulting Ltd. was retained by Hydro One Networks Inc. (Hydro One) to complete a Natural Heritage Existing Conditions report to support the preparation of a Class EA for the construction of a 500-230 kV auto-transformer Station in the Municipality of Clarington. During site investigations, 46 butternut trees were identified and assessed by a certified Butternut Health Assessor. The original assessment was completed in 2012; this re-assessment was completed specifically for trees within or near the project footprint to accurately account for changes made under Ontario Regulation 242/08.

All butternut trees within the Study Area were numbered on site in 2012 using white paint. The select trees that were re-assessed in 2013 had new numbers assigned to them due to the nature of the data collection forms. These new numbers were only applied to the data collection forms; the trees were not physically re-numbered with white paint. The corresponding numbering system is outlined in the Tables below.

Changes from the 2012 survey are as follows (based on the 2012 numbering system):

- Tree #1, previously categorized as retainable, was genetically tested and determined to be a hybrid (initiative undertaken by Hydro One)
- Tree #16, previously categorized as retainable, was re-assessed as category 1
- Tree #21, previously categorized as retainable, was re-assessed as category 1
- Tree #23, previously categorized as retainable, was re-assessed as a hybrid
- Tree #24, previously categorized as retainable, was re-assessed as category 1

**Category 1** trees do not meet the retention criteria in the Butternut Assessment Guidelines based on crown vigour and the degree of cankers on the root flare and/or stem. The following trees can be killed, harmed or removed after the 30 day period that follows submission of this BHA Report to the MNR District Manager without any additional requirements under the ESA but their removal may be subject to municipal by-laws and other legislation.

Please note: The Ontario Recovery Team encourages that all Butternut trees be conserved, whether they meet the retention criteria or not. Removal of cankered trees is not an objective of the Recovery Strategy for Butternut.

| The following tree(s) have been assessed as Category 1: (non-retainable) |                                                     |  |  |  |  |  |
|--------------------------------------------------------------------------|-----------------------------------------------------|--|--|--|--|--|
| Category                                                                 | Category 2012 Tree Number 2013 Tree UTM Coordinates |  |  |  |  |  |
| 1                                                                        | 1 16 3 17, 672774, 4872684                          |  |  |  |  |  |
| 1                                                                        | 1 21 4 17, 672661, 4872624                          |  |  |  |  |  |
| 1                                                                        | 1 24 6 17, 672659, 4872601                          |  |  |  |  |  |
|                                                                          | Total number of Category 1 trees:                   |  |  |  |  |  |

**Category 2** trees satisfy the retention criteria in the Butternut Assessment Guidelines. Activities that may affect up to ten (10) Category 2 trees may be eligible under section 23.7 of Ontario Regulation 242/08 in accordance with the conditions set out in the Regulation.

| The following tree(s) have been assessed as Category 2: (retainable) |                                     |                     |                     |  |  |  |  |
|----------------------------------------------------------------------|-------------------------------------|---------------------|---------------------|--|--|--|--|
| Category                                                             | 2012 Tree<br>Number                 | 2013 Tree<br>Number | UTM Coordinates     |  |  |  |  |
| 2                                                                    | 10                                  | 2                   | 17, 672658, 4872649 |  |  |  |  |
| 2                                                                    | 22                                  | 5                   | 17, 672657, 4872616 |  |  |  |  |
| 2                                                                    | 28                                  | 7                   | 17, 672664, 4872572 |  |  |  |  |
| 2                                                                    | 29                                  | 8                   | 17, 672668, 4872566 |  |  |  |  |
| 2                                                                    | 33                                  | 9                   | 17, 672692, 4872642 |  |  |  |  |
| 2                                                                    | 34                                  | 10                  | 17, 672681, 4872565 |  |  |  |  |
| 2                                                                    | 36                                  | 11                  | 17, 672681, 4872560 |  |  |  |  |
| 2                                                                    | 46                                  | 12                  | 17, 672780, 4872692 |  |  |  |  |
|                                                                      | Total number of Category 2 trees: 8 |                     |                     |  |  |  |  |

**Category 3** trees are not eligible to be killed, harmed or removed under section 23.7 Ontario Regulation 242/08. MNR should be contacted for an application for an authorization issued under the ESA.

| The follow | The following tree(s) have been assessed as Category 3: (achievable) |                     |                     |  |  |  |  |
|------------|----------------------------------------------------------------------|---------------------|---------------------|--|--|--|--|
| Category   | 2012 Tree<br>Number                                                  | 2013 Tree<br>Number | UTM Coordinates     |  |  |  |  |
| 3          | 4                                                                    | 1                   | 17, 672762, 4872683 |  |  |  |  |
|            | Total number of Category 3 trees: 1                                  |                     |                     |  |  |  |  |

**Hybrid** Butternut trees are not protected under the ESA, but their removal may be subject to municipal by-laws and other legislation.

| The following tree(s) have been assessed as <b>hybrid trees</b> : |                     |                               |   |  |  |  |
|-------------------------------------------------------------------|---------------------|-------------------------------|---|--|--|--|
|                                                                   | 2012 Tree<br>Number | UTM Coordinates               |   |  |  |  |
| Hybrid                                                            | 23                  | 17, 672660, 4872603           |   |  |  |  |
|                                                                   |                     | Total number of hybrid trees: | 1 |  |  |  |

We understand that Hydro One has taken considerable measures to avoid the Butternut trees at the site, and most recently, Hydro One has been able to minimize the removal and impact to trees 2, 3, 5, 9, 46, and potentially 34, 35, and 36 (based on 2012 tree numbering). Based on the information provided by Hydro One no other trees will be affected by proposed Clarington Transformer development.

Please note that Hydro One will be completing the online registration of Butternut following the 30 day review period as per Section 23(4) 4 of the Regulation.

\_\_\_\_\_

NOTE: This concludes summary of the BHA Report. A complete BHA Report must include the original (hard copy) data forms (all completed sets of Form 1 and Form 2), an electronic copy of the Excel data analysis spreadsheet, plus one printed copy of the spreadsheet.

|             |             |      |               |                |                |                | Contact the   |              |              |         | ut retainab<br>detailed expla                        |                                | •                  | e 2009/2013). |             |                             |     |                     |                                                |              |                           |
|-------------|-------------|------|---------------|----------------|----------------|----------------|---------------|--------------|--------------|---------|------------------------------------------------------|--------------------------------|--------------------|---------------|-------------|-----------------------------|-----|---------------------|------------------------------------------------|--------------|---------------------------|
| BHA#        |             |      | 14            | 45             | Assessm        | ent Date(s)    |               |              |              |         |                                                      | 8-Oct-13                       |                    |               |             | Total # tre                 | ees |                     |                                                | 12           |                           |
| andowne     | r name      |      |               |                |                |                |               |              |              |         |                                                      | H                              | ydro One li        | nc.           |             |                             |     |                     |                                                |              |                           |
| Property L  | ocation.    |      |               |                |                |                |               |              |              | Corner  | of Winches                                           | ter Road E                     | and Conc           | ession Roa    | d 7, Clarin | gton, ON                    |     |                     |                                                |              |                           |
|             |             |      |               | input fi       | eld data       |                |               |              |              |         |                                                      | automa                         | tic calculat       | ions from f   | ield data   |                             |     |                     | Categories                                     |              |                           |
|             |             | % uw |               |                | # bole         | # bole cankers |               |              |              |         | 04 A morphism from from from from from from from fro |                                | total RF<br>canker | bala cankar   | RF canker % | total bole &<br>root canker |     | 2<br>3:             | on retainable<br>=retainable (<br>= Archivable | R),          |                           |
|             |             | 0    | tree dbh (cm) |                | (will be       | open (O)       | (will be      | # root flare | (RF) cankers | ere ere | Pi x dbh                                             | width (sooty<br>x 2.5 + open x |                    | % of circ.    | of circ.    | %                           |     | '2'                 | cases                                          |              | '3' cases                 |
| 2013 Tree # | 2012 Tree # | Live |               | assigned 2.5 o | cm per canker) | assigned 5 cn  | n per canker) |              |              | san 4   |                                                      | x 2.5 + open x<br>5)           | openx5)            |               |             | of<br>2xCirc                |     |                     |                                                | ea<br>ea     | FINAL                     |
|             |             | LC % | dbh (cm)      | S <2 m         | S >2m          | O <2m          | O >2m         | RF S         | RF O         | y or n  | Circ<br>(cm)                                         | BC (cm)                        | RC (cm)            | BC%           | RC%         | BRC%                        |     | LC%>70 &<br>BRC%<20 | LC%>70 &<br>BC%< 20                            | Final R Tree | R,<br>dbh>20d<br><40m fro |
| 1           | 4           | 95   | 30            | 0              | 0              | 0              | 0             | 1            | (            | у       | 94.2                                                 | 0                              | 2.5                | 0             | 3           | 1                           | 2   | 2                   | 2                                              | 2            | 3                         |
| 2           | 10          | 100  | 7             | 0              | 0              | 0              | 0             | 0            | C            | n       | 21.98                                                |                                | 0                  | 0             | 0           | 0                           | _   | 2                   | 2                                              | 2            | 2                         |
| 3           | 16          | 100  | 11            | 3              | 0              | 0              | 0             | 3            | C            | у       | 34.54                                                | 7.5                            | 7.5                | 22            | 22          | 22                          | 1   | 1                   | 1                                              | 1            | 1                         |
| 4           | 21          | 25   |               | 0              | 0              | 0              | 0             |              | C            | n       | 3.14                                                 |                                | 0                  |               | 0           | 0                           | 1   | 1                   | 1                                              | 1            | 1                         |
| 5           | 22          | 95   |               | 3              | 1              | 0              | 0             | 3            |              | n       | 150.72                                               |                                |                    |               | 5           | 6                           |     | 2                   | 2                                              | 2            | 2                         |
| 6           | 24          | 95   |               | 1              | 1              | 1              | 0             | 4            |              | n       | 21.98                                                |                                | 10                 | 45            | 45          |                             |     | 1                   | 1                                              | 1            | 1                         |
| 7           | 28          | 100  |               | 0              | 0              | 0              | 0             |              |              | у       | 28.26                                                |                                | 0                  | 0             | 0           | 0                           |     | 2                   | 2                                              | 2            | 2                         |
| 8           | 29          | 100  |               | 1              | 0              | 0              | 0             |              |              | у       | 21.98                                                |                                |                    | 11            | 0           | _                           |     | 2                   | 2                                              | 2            | 2                         |
| 10          | 33<br>34    | 95   |               | 3              | 1              | 0              | 0             |              |              | n       | 25.12<br>59.66                                       |                                | 2.5                | 40            | 0           | 20                          |     | 2                   | 1                                              | 2            | 2                         |
| 10          | 34          | 100  |               |                | 0              | 0              | 0             | 1            |              | у       | 53.38                                                |                                | 2.5                |               | 4           |                             | 2   | 2                   | 2                                              | 2            | 2                         |
| 11          | 36<br>46    | 100  |               | 0              | 0              | 0              | 0             | 1            |              | y<br>V  | 9.42                                                 |                                | 2.5                |               | 5           |                             | 2   | 2                   | 2                                              | 2            | 2                         |

(PLEASE USE

BLOCK LETTERS)

Fill when Form 1 indicates canker is well established. The information opn Form 2 must be filled out for all trees when doing a

| Shaded fields are mandatory for Butternut Health Assessments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | must be filled out for all trees when doing a Butternut Health Assessment. |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| Site Code(A,B,Z, AA)  Surveyor ID or BHA #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Date (dd/mm/yyyy)                                                          |
| Surveyor Last Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 08-16-2013                                                                 |
| Tree ID Numbering: 1,2,3,Starting from 1 for each site Tree # Zone Easting Northing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Metres from badly cankered tree                                            |
| 001176727624872683 Assess below                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | □ < 40 □ > 40 □ None                                                       |
| Crown Class O 9 5 Live Main Stem Length(m) Class O 9 5 Crown % Delow crown Seed #Epic-Dead                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Root O O O O O O O O O O O O O O O O O O                                   |
| ☐ Twig Dieback                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | =<2m 0 0 0 0 A C E S A 3 A                                                 |
| ☐ Defoliation ☐ Discolouration ☐ Discol | >2mopod VITRIPA                                                            |
| MARKED A MY" ; PIC HZ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                            |
| Tree # Zone Easting Northing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Metres from badly cankered tree                                            |
| 002176726584872649 Assess below                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | □ < 40 □ > 40 □ None Found                                                 |
| Crown Class Crown % Seed #Epic-Dead                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Root Competing Species                                                     |
| Twig Dieback  #Stems  Butternut Origin Male Flowers Bark Type  Branch Dieback    Branch Dieback                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | =<2mooo TILAMER                                                            |
| ☐ Branch Dieback ☐ Natural ☐ Female Flowers ☐ Defoliation ☐ Planted ☐ Planted ☐ Unknown ☐ None ☐ Wounds                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | >2m0000                                                                    |
| THEIGHT ~ YM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                            |
| Tree # Zone Easting Northing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Metres from badly cankered tree                                            |
| Assess below #Epic-Live                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | #Open #Sooty Competing Species                                             |
| Crown Class Crown % Seed Signs Stem Length(m) Seed #Epic-Dead                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Root a a b S & L I X                                                       |
| Twig Dieback #Stems Butternut Origin Male Flowers Bark Type  Branch Dieback #Stems Butternut Origin Female Flowers #Callused                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | =<2m 0 0 0 3                                                               |
| ☐ Defoliation ☐ Discolouration ☐ Discol | >2m0009                                                                    |
| - white of 1,10,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                            |
| Tree # Zone Easting Northing Assess below                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Metres from badly cankered tree                                            |
| Crown Live Main Stem Length(m) #Epic-Live                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | #Open #Sooty Competing Species                                             |
| Class Crown % Delow crown Seed Butternut Signs Bark Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Root a a a b 5 4 GC LV &                                                   |
| Branch Dieback Natural Female Flowers # Callused                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | =<2m O o o o                                                               |
| ☐ Discolouration ☐ ☐ Unknown ☑ None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | >2m 0 0 0 0                                                                |
| MATTER #5 "ZI"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                            |
| Tree # Zone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Metres from badly cankered tree    Value crown                             |
| Crown Live Main Stem Length(m) #Epic Dood                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | #Open #Sooty Competing Species                                             |
| Class O 9 5 Crown % O 2 Below crown Seed  Butternut Signs  Origin Male Flowers  Seed  Butternut O Male Flowers  Signs  Origin Male Flowers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Root 0 0 0 3 5 A L 1 Y                                                     |
| Branch Dieback Natural Female Flowers # Callused                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | >2m0001 504 C & N & C V                                                    |
| Discolouration  Unknown None    Discolouration   Graph   Discolouration   |                                                                            |
| Please enter matching page link code on forms 1 and 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                            |

Page Link (Contact Information follows all applicable privacy policies and guidelines)

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**BLOCK LETTERS**) Shaded fields are mandatory for Butternut Health Assessments

Fill when Form 1 indicates canker is well established. The information opn Form 2 must be filled out for all trees when doing a

| Chaded helas are mandatory for Datternat Health Assessments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Buttemut Health Assessment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| Site Code(A,B,Z, AA) Surveyor ID U 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Date (dd/mm/yyyy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Surveyor Last Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 08-10-2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Tree ID Numbering: 1,2,3,Starting from 1 for each site                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Tree # Zone Easting Northing  Assess below  #Epic-Live                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Metres from badly cankered tree  □ < 40 □ > 40 □ None Found  #Open #Sooty  Competing Species                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Crown Class Crown % Below crown Seed #Epic-Dead  Twig Dieback #Stems Origin Male Flowers Bark Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Root o o o y Juga Inte                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Branch Dieback Defoliation Discolouration Discolour | >2m 0 0 0 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| THEIGHOT NUM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Tree # Zone Easting Northing  Q Q 2 1 7 6 7 2 6 6 4 4 8 7 2 5 7 2  Assess below  #Epic-Live  Crown Class  Crown 4 2 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Metres from badly cankered tree    < 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Twin Dieback Butternut Signs Bark Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Root a s a VITRIPA  PHACATH  >2m a a a a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| THEIRHT N 4.5M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| □ Defoliation □ Discolouration □ Discolouration □ Unknown □ Natural □ Female Flowers □ # Callused □ Wounds □ Unknown □ Unknow  | Metres from badly cankered tree   < 40   > 40   None   Found                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| MARKED & S "29"  HEIRH ~ -1.5M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Tree # Zone Easting Northing    Crown   Class   Crown %   Main Stem Length(m)   Epic-Live   #Epic-Live   #Epic-Dead                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | #Open #Sooty Root  =<2m >>2m   The property of |
| □ Defoliation □ Discolouration □ DBH(cm) □ DBH(cm) □ Unknown □ Discolouration □ Unknown □ Unknown □ DBH(cm) □ Unknown □ Unknown □ Unknown □ Unknown □ DBH(cm) □ Unknown □ Unkno  | Wetres from badly cankered tree    < 40   > 40   None Found                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| HEVEN NO SM  Please enter matching page link code on forms 1 and 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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Fill when Form 1 indicates canker is well established. The information opn Form 2

| Straded fields are mandatory for butternut nearth Assessments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Butternut Health Assessment.     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| Site Code(A,B,Z, AA)  Surveyor ID or BHA #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Date (dd/mm/yyyy)                |
| Surveyor Last Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 08-10-2013                       |
| Tree ID Numbering: 1,2,3,Starting from 1 for each site Tree # Zone Easting Northing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                  |
| Assess below #Epic-Live                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ∐ < 40 ∐ > 40 ∐ Found            |
| Crown Class Crown % Main Stem Length(m) Class Felow crown Seed #Epic-Dead                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Root Competing Species           |
| ☐ Twig Dieback #Stems Butternut Origin Male Flowers ☐ Branch Dieback #Stems Origin ☐ Female Flowers ☐ Female Flowers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | =<2moooo SUGCIME                 |
| ☐ Defoliation ☐ DBH(cm) ☐ Planted ☐ Seed Set ☐ Unknown ☐ None ☐ Discolouration ☐ Discolour | >2m                              |
| traffer as "36"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                  |
| Tree # Zone Easting Northing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Metres from badly cankered tree  |
| 4872692 Assess below #Epic-Live                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ☐ < 40 ☐ > 40 ☐ Found            |
| Crown Class Crown % Below crown Seed #Epic-Dead                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Root Competing Species           |
| Twig Dieback #Stems Butternut Origin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | =<2m 🔾 0 0 0                     |
| ☐ Defoliation ☐ DBH(cm) ☐ Planted ☐ Seed Set ☐ Unknown ☐ None ☐ Discolouration ☐ Discolour | >2m 0 0 0                        |
| MARKED AS "HE" - ALL 3 STEMS SHOW VIGOT, BUT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | AL DAMARS FROM DOCK              |
| Tree # Zone Easting Northing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Metres from badly cankered free  |
| Assess below #Epic-Live                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | live crown                       |
| Crown Class Crown % Below crown Seed #Epic-Dead                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Root Competing Species           |
| ☐ Twig Dieback                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | =<2m                             |
| □ Defoliation □ DBH(cm) □ Natural □ Female Flowers ■ # Callused Wounds □ Discolouration □ Unknown □ None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | >2m                              |
| GIRIOWI L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                  |
| Tree # Zone Easting Northing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Metres from badly cankered tree  |
| Assess below #Epic-Live                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | □ < 40 □ > 40 □ None Found       |
| Crown Class Crown % Below crown Seed #Epic-Dead                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | #Open #Sooty   Competing Species |
| ☐ Twig Dieback                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | =<2m                             |
| □ Defoliation □ DBH(cm) □ Planted □ Seed Set □ Wounds □ Unknown □ None □ Wounds                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | >2m                              |
| Onknown Linear                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                  |
| Tree # Zone Easting Northing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Metres from badly cankered tree  |
| 1 Assess below #Epic-Live                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | IIve crown                       |
| Crown Class Live Main Stem Length(m) Class Crown % Below crown Seed #Epic-Dead                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Root Competing Species           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | =<2m                             |
| Defoliation DBH(cm) Planted Seed Set Wounds                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | >2m                              |
| Unknown Li None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                  |
| Please enter matching page link code on forms 1 and 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                  |

Page Link (Contact Information follows all applicable privacy policies and guidelines)

Please return forms to: Forest Gene Conservation Association Suite 233, 266 Charlotte St. Peterborough, ON, K9J 2V4 www.fgca.net





James Leslie, BHA #145 Stantec Consulting 70 Southgate Drive, Suite 1 Guelph ON N1G 4P5

June 26, 2012

Attn: Doug Magee

Hydro-One

483 Bay Street South Tower Toronto ON M5G 2P5

Re: Clarington Butternut Health Assessment;

**Municipality of Clarington** 

Dear Doug Magee,

This letter is in regard to my assessment of the Butternut trees on the property of Hydro One, which is being copied to Bohdan Kowalyk of the Ontario Ministry of Natural Resources (OMNR) Aurora District Office. This assessment was then field verified by Mr. Kowalyk on June 25, 2012, at which time six new trees were identified and added to the assessment and mapped appropriately.

OMNR may contact you regarding the need for audit of my assessment within 30 days of receiving a copy of this letter. Trees identified in this assessment (including those assessed to be non-retainable) cannot be harmed or removed for 30 days unless notice has been received in writing from the district manager approving this assessment report. During this period OMNR will notify you about a potential audit of the assessment. If OMNR has not contacted you within 30 days of the submission of this assessment to OMNR, you may proceed with proposed activities to kill, harm or take trees determined to be **non-retainable** in my assessment unless there are municipal bylaws or other legislation prohibiting this.

**Retainable** Butternut are protected and cannot be removed without an authorization under the Endangered Species Act 2007, i.e. without either (1) an overall benefit permit or, if no more than 10 trees are concerned, (2) a planting plan that has been approved by the OMNR, or has not been approved or refused within 30 days following its submission to the OMNR district office.

As a qualified Butternut Health Assessor (BHA), I am providing the following comments about the Butternut trees I located and assessed at the above noted property during the site visit on May 30<sup>th</sup>, June 06<sup>th</sup>, and June 25 2012. These trees were numbered sequentially on each trunk using white marking paint. The following table provides a reference to the actual tree numbers and their associated numbers on the Data Collection Form:

| <b>Data Collection Form</b> |         |          |               |
|-----------------------------|---------|----------|---------------|
| #                           | Easting | Northing | Retainability |
| 1                           | 656542  | 4878387  | R             |
| 2                           | 656675  | 4878421  | N             |

| 3  | 656808 | 4878425 | N |
|----|--------|---------|---|
| 4  | 672762 | 4872683 | R |
| 5  | 657135 | 4878741 | N |
| 6  | 655339 | 4879347 | R |
| 7  | 655318 | 4879285 | R |
| 8  | 655387 | 4879225 | R |
| 9  | 672661 | 4872683 | N |
| 10 | 672658 | 4872649 | R |
| 11 | 672627 | 4872775 | R |
| 12 | 655116 | 4879373 | R |
| 13 | 655206 | 4879344 | R |
| 14 | 655293 | 4879438 | N |
| 15 | 655208 | 4879251 | R |
| 16 | 672774 | 4872684 | R |
| 17 | 672631 | 4872794 | R |
| 18 | 672631 | 4872793 | R |
| 19 | 672632 | 4872784 | R |
| 20 | 672634 | 4872785 | R |
| 21 | 672661 | 4872624 | R |
| 22 | 672657 | 4872616 | R |
| 23 | 672660 | 4872603 | R |
| 24 | 672659 | 4872601 | R |
| 25 | 672662 | 4872602 | N |
| 26 | 672666 | 4872605 | N |
| 27 | 672667 | 4872604 | N |
| 28 | 672664 | 4872572 | R |
| 29 | 672668 | 4872566 | R |
| 30 | 672668 | 4872548 | R |
| 31 | 672678 | 4872515 | R |
| 32 | 672677 | 4872479 | R |
| 33 | 672689 | 4872643 | R |
| 34 | 672681 | 4872565 | R |
| 35 | 672682 | 4872558 | N |
| 36 | 672681 | 4872560 | R |
| 37 | 672676 | 4872546 | R |
| 38 | 672681 | 4872462 | R |
| 39 | 672637 | 4872647 | R |
| 40 | 655035 | 4879031 | R |
| 41 | 672645 | 4872715 | N |
| 42 | 672639 | 4872712 | R |
| 43 | 672644 | 4872711 | R |
| 44 | 672698 | 4872746 | N |

| 45 | 672676 | 4872661 | R |
|----|--------|---------|---|
| 46 | 672784 | 4872692 | R |

**Non-retainable trees** do not meet the retention guidelines based on the crown vigour assessment and the levels of cankers on the root flare and/or stem. These trees *can be removed upon approval of this BHA report by* the OMNR district manager, or if 30 days have lapsed since OMNR received this report, and *provided there are no municipal bylaws or other legislation prohibiting their removal.* Please note the Ontario Recovery Team encourages that all Butternut trees be conserved and removal of diseased trees is not an objective of the Recovery Strategy.

Various suspected **hybrid trees** were observed in the study area. Assessment of genetic purity was based on lenticel shape on new twigs, colour and width of pith, and leaf scars. No trees appeared to exhibit *all* characteristics of hybrid specimens, although many appeared to contain some characteristics. Bohdan Kowalyk of the MNR also agreed that many of these trees did exhibit varying characteristics and may require genetic testing for a conclusive determination. Mr. Kowalyk also noted that some of the trees had narrow splits down the main stem and indicated that hybrid trees are not as hardy as pure trees and can sometimes split when the temperature gets too low. While some of these trees did exhibit varying degrees of splitting along the main stem, the observation could not conclusively indicate hybrid specimens.

Hybrid Butternut trees and are not afforded protection under the Endangered Species Act, 2007. Hybrid trees can be removed if desired under the ESA, but as mentioned above might be subject to other legislation.

Retainable trees met the retention criteria and are *protected* from being killed or harmed or taken under the ESA 2007. A protective buffer of 25m radius from the bole of the Butternut is recommended to prevent root disturbance. In this buffer area, certain operations such as excavating or paving that would remove or significantly compact the roots and soil, and cause direct harm to the tree are not permitted. Removal of other vegetation and careful logging practices within this radius are permitted. Trimming of retainable trees is allowed as long as there is documentation provided by certified arborist or forester that indicates that this activity will not cause harm to (or result in killing of) the tree.

#### Other Butternut not located during this assessment:

Please be advised that Butternut trees other than noted here, that are discovered or naturally regenerate in the future on this property must also be assessed by a BHA if their removal is being considered.

**Permits** may be issued by the OMNR for the removal of retainable trees. In the event a permit is necessary, Stantec Consulting will contact the Aurora District OMNR Species at Risk Biologist to discuss this matter further. Permit applications can take 6 months or longer to process; therefore it is recommended you contact OMNR early if you wish to apply for a permit.

If no more than 10 retainable trees are concerned, a planting plan may be accepted instead of a permit. In the event a planting plan is the preferred option, a designated BHA from Stantec Consulting can assist in development of this plan.

Please retain this letter as proof of a Butternut Health Assessment performed on the above noted property and any other documentation you may receive from the OMNR should an audit of the assessment occur.

If you have any questions, please feel free to contact myself, or Melinda Thompson of the Aurora OMNR: (905) 713-7425. <a href="www.mnr.gov.on.ca">www.mnr.gov.on.ca</a>

Sincerely,

James Leslie

# Butternut retainable tree analysis

using data collected by a designated BHA (ESA 2007)

Contact the OMNR Provincial SAR Unit for a more detailed explanation of its derivation (June 2009).

### ESA 2007 analysis method:

 BHA #
 145
 Assessment Date(s)
 5/30/2012; 06/06/2012; 06/25/2012
 Total # trees
 46

 Landowner name
 Hydro One Inc.

|           |              | ner na              |                                           | Hydro One Inc.                                                    |          |                                        |                      |            |                                |                                                                       |                                                                           |                                 |                                          |                                                        |                                         |                                                            |           |            |  |
|-----------|--------------|---------------------|-------------------------------------------|-------------------------------------------------------------------|----------|----------------------------------------|----------------------|------------|--------------------------------|-----------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------|------------------------------------------|--------------------------------------------------------|-----------------------------------------|------------------------------------------------------------|-----------|------------|--|
| Pro       | perty        | / Loca              | tion                                      | Corner of Winchester Road E and Concession Road 7, Clarington, ON |          |                                        |                      |            |                                |                                                                       |                                                                           |                                 |                                          |                                                        |                                         |                                                            |           |            |  |
|           |              |                     | inpu                                      | t field                                                           | data     |                                        |                      |            | а                              | utomatic                                                              | calculation                                                               | Retainable<br>R=yes or N=no     |                                          |                                                        |                                         |                                                            |           |            |  |
|           | Live Crown % | tree<br>dbh<br>(cm) | sooty<br>(will<br>assig<br>2.5 cr<br>canl | / (S)<br>be<br>gned<br>m per<br>ker)                              | can      | n (O)<br>I be<br>gned<br>n per<br>ker) | # root<br>(R<br>canl | F)<br>kers | Circ.<br>(cm) =<br>Pi x<br>dbh | total<br>bole<br>canker<br>width<br>(sooty x<br>2.5 +<br>open x<br>5) | total<br>root<br>flare<br>canker<br>width<br>(sooty x<br>2.5 +<br>openx5) | bole<br>canker<br>%<br>of circ. | root<br>flare<br>canker<br>%<br>of circ. | total<br>bole &<br>root<br>canker<br>%<br>of<br>2xCirc | 3<br>LC%><br>/= 50<br>and<br>BC%<br>= 0 | R scena<br>LC%>7<br>0 &<br>BRC%<br><20<br>even if<br>BC% > |           | na         |  |
| Tree<br># | LC<br>%      | dbh<br>(cm)         | S<br><2 m                                 | S<br>>2m                                                          | O<br><2m | O<br>>2m                               | RF<br>sooty          | RF<br>open | Circ<br>(cm)                   | BC<br>(cm)                                                            | RC (cm)                                                                   | BC%                             | RC%                                      | BRC%                                                   | 1                                       | 2                                                          | 3         | R/N        |  |
| 1         | 100          | 7                   | 2                                         | 0                                                                 | 0        | 0                                      |                      | 0          | 21.98                          |                                                                       | 0                                                                         | 23                              | 0                                        | 11                                                     | n                                       | r                                                          | n         | R          |  |
| 2         | 80           | 31                  | 7                                         | 9                                                                 | 0        | 0                                      | 5                    | 0          | 97.34                          | 40                                                                    | 12.5                                                                      | 41                              | 13                                       | 27                                                     | n                                       | n                                                          | n         | N          |  |
| 3         | 75           | 33                  | 8                                         | 6                                                                 | 1        | 0                                      | 2                    | 0          | 103.6                          | 40                                                                    | 5                                                                         | 39                              | 5                                        | 22                                                     |                                         | n                                                          | n         | N          |  |
| 4         | 95           |                     | 0                                         | 0                                                                 |          | 0                                      | 0                    | 0          | 87.92                          | 0                                                                     | 0                                                                         | 0                               | 0                                        | 0                                                      |                                         | r                                                          | r         | R          |  |
| 5         | 50           | 21                  | 16                                        | 17                                                                | 0        | 0                                      | 5                    | 0          | 65.94                          | 82.5                                                                  | 12.5                                                                      | 125                             | 19                                       | 72                                                     |                                         | n                                                          | n         | N          |  |
| 6         | 100          | 13                  | 0                                         | 0                                                                 | 0        | 0                                      | 0                    | 0          | 40.82                          | 0                                                                     | 0                                                                         | 0                               | 0                                        | 0                                                      |                                         | r                                                          | r         | R          |  |
| 7         | 100          | 11                  | 1                                         | 0                                                                 | 0        | 0                                      | 0                    | 0          | 34.54                          | 2.5                                                                   | 0                                                                         | 7                               | 0                                        |                                                        | n                                       | r                                                          | r         | R          |  |
| 8<br>9    | 100<br>90    | 10<br>5             | 0<br>7                                    | 0                                                                 | 0        | 0                                      | 0                    | 0          | 31.4<br>15.7                   | 0<br>17.5                                                             | 0<br>2.5                                                                  | <u>0</u><br>111                 | 0<br>16                                  | 0<br>64                                                |                                         | l<br>n                                                     | l n       | R<br>N     |  |
| 10        | 100          | 4                   | 0                                         | 0                                                                 | 0        | 0                                      | 0                    | 0          | 12.56                          |                                                                       | 2.5                                                                       | 0                               | 0                                        | 0                                                      |                                         | n<br>r                                                     | n<br>r    | R          |  |
| 11        | 100          | 2                   | 0                                         | 0                                                                 | 0        | 0                                      |                      | 0          | 6.28                           | 0                                                                     | 0                                                                         | 0                               | 0                                        | 0                                                      |                                         | r                                                          | r         | R          |  |
| 12        | 95           | 19                  | 1                                         | 0                                                                 | 0        | 0                                      | 0                    | 0          | 59.66                          | _                                                                     | 0                                                                         | 4                               | 0                                        |                                                        | n                                       | r                                                          | r         | R          |  |
| 13        | 95           | 19                  | 1                                         | 0                                                                 | 0        | 0                                      | 0                    | 0          | 59.66                          | 2.5                                                                   | 0                                                                         | 4                               | 0                                        |                                                        | n                                       | r                                                          | r         | R          |  |
| 14        | 100          | 18                  | 8                                         | 7                                                                 | 0        | 0                                      | 5                    | 0          | 56.52                          | 37.5                                                                  | 12.5                                                                      | 66                              | 22                                       | 44                                                     |                                         | n                                                          | n         | N          |  |
| 15        | 100          | 12                  | 0                                         | 0                                                                 | 0        | 0                                      | 2                    | 0          | 37.68                          | 0                                                                     | 5                                                                         | 0                               | 13                                       | 7                                                      |                                         | r                                                          | r         | R          |  |
| 16        | 100          | 10                  | 2                                         | 0                                                                 | 0        | 0                                      | 1                    | 0          | 31.4                           | 5                                                                     | 2.5                                                                       | 16                              | 8                                        | 12                                                     |                                         | r                                                          | r         | R          |  |
| 17        | 100          | 3                   | 0                                         | 0                                                                 | 0        | 0                                      | 0                    | 0          | 9.42                           | 0                                                                     | 0                                                                         | 0                               | 0                                        | 0                                                      |                                         | r                                                          | r         | R          |  |
| 18        | 100          | 3                   | 0                                         | 0                                                                 | 0        | 0                                      | 0                    | 0          | 9.42                           | 0                                                                     | 0                                                                         | 0                               | 0                                        | 0                                                      | r                                       | r                                                          | r         | R          |  |
| 19        | 100          | 8                   | 2                                         | 0                                                                 | 0        | 0                                      | 4                    | 0          | 25.12                          | 5                                                                     | 10                                                                        | 20                              | 40                                       | 30                                                     | n                                       | n                                                          | r         | R          |  |
| 20        | 100          | 4                   | 0                                         | 0                                                                 | 0        | 0                                      | 0                    | 0          | 12.56                          |                                                                       | 0                                                                         | 0                               | 0                                        | 0                                                      | r                                       | r                                                          | r         | R          |  |
| 21        | 100          | 2                   | 0                                         | 0                                                                 | 0        | 0                                      |                      | 0          | 6.28                           | 0                                                                     | 0                                                                         | 0                               | 0                                        | 0                                                      |                                         | r                                                          | r         | R          |  |
| 22        | 95           | 48                  | 2                                         | 0                                                                 | 0        | 0                                      | 0                    | 0          | 150.7                          | 5                                                                     | 0                                                                         | 3                               | 0                                        |                                                        | n                                       | r                                                          | r         | R          |  |
| 23        | 100          | 26                  | 0                                         | 0                                                                 | 0        | 0                                      | 3                    | 0          | 81.64                          | 0                                                                     | 7.5                                                                       | 0                               | 9                                        | 5                                                      |                                         | r                                                          | r         | R          |  |
| 24        | 95           |                     | 0                                         | 0                                                                 |          | 0                                      |                      | 0          | 15.7                           | 0                                                                     | 10                                                                        | 0                               | 64                                       | 32                                                     |                                         | n                                                          | r         | R          |  |
| 25        | 100          | 11                  | 5                                         | 0                                                                 | 0        | 0                                      | 5                    | 0          | 34.54                          | 12.5                                                                  | 12.5                                                                      | 36                              | 36                                       | 36                                                     |                                         | n                                                          | n         | N          |  |
| 26        | 95           | 5                   | 7                                         | 0                                                                 | 0        | 0                                      | 4                    | 0          | 15.7                           | 17.5                                                                  | 10                                                                        | 111                             | 64                                       | 88                                                     |                                         | n                                                          | n         | N          |  |
| 27        |              |                     |                                           | 0                                                                 |          | 0                                      |                      |            |                                |                                                                       | 5                                                                         | 60                              |                                          | 40                                                     |                                         | n                                                          | n         | N          |  |
| 28<br>29  |              |                     | 0                                         | 0                                                                 |          | 0                                      |                      | 0          | 25.12<br>18.84                 |                                                                       | 0                                                                         | 0<br>13                         | _                                        |                                                        | r<br>n                                  | r                                                          | r         | R<br>R     |  |
| 30        | 100          |                     | 0                                         | 0                                                                 |          | 0                                      |                      | 0          | 15.7                           | 2.5                                                                   |                                                                           | 0                               |                                          | 0                                                      |                                         | r                                                          | r         | R          |  |
| 31        | 100          |                     | 0                                         | 0                                                                 |          | 0                                      |                      |            | 25.12                          |                                                                       |                                                                           | 0                               |                                          | 0                                                      |                                         | r                                                          | r         | R          |  |
| 32        | 100          |                     | 0                                         | 0                                                                 |          | 0                                      |                      | 0          | 18.84                          |                                                                       |                                                                           | 0                               |                                          | 0                                                      |                                         | r                                                          | r         | R          |  |
| 33        | 100          |                     | 0                                         | 0                                                                 |          | 0                                      |                      | 0          | 21.98                          |                                                                       |                                                                           | 0                               |                                          | 0                                                      |                                         | r                                                          | r         | R          |  |
| 34        |              |                     | 2                                         | 0                                                                 |          | 0                                      |                      | 0          |                                |                                                                       |                                                                           | 11                              | 5                                        |                                                        | n                                       | r                                                          | r         | R          |  |
| 35        | 100          |                     | 15                                        | 0                                                                 |          | 0                                      | 4                    | 0          | 31.4                           |                                                                       | 10                                                                        | 119                             | 32                                       | 76                                                     |                                         | n                                                          | n         | N          |  |
| 36        | 100          |                     | 1                                         | 0                                                                 | 0        | 0                                      | 2                    | 1          | 43.96                          |                                                                       | 10                                                                        | 6                               | 23                                       | 14                                                     |                                         | r                                                          | r         | R          |  |
| 37        | 100          |                     | 0                                         | 0                                                                 |          | 0                                      |                      | 0          | 78.5                           |                                                                       | 0                                                                         | 0                               | 0                                        | 0                                                      |                                         | r                                                          | r         | R          |  |
| 38        | 100          |                     | 0                                         | 0                                                                 |          | 0                                      |                      | 0          | 47.1                           |                                                                       | 0                                                                         | 11                              |                                          |                                                        | n                                       | r                                                          | r         | R          |  |
| 39        |              |                     | 0                                         | 0                                                                 |          | 0                                      |                      |            | 28.26                          |                                                                       |                                                                           | 0                               |                                          | 0                                                      |                                         | r                                                          | r         | R          |  |
| 40        | 100          |                     | 0                                         | 0                                                                 |          | 0                                      |                      | 0          | 9.42                           |                                                                       | 0                                                                         | 0                               | 0                                        | 0                                                      |                                         | r                                                          | r         | R          |  |
| 41        | 100          |                     | 4                                         | 0                                                                 |          | 0                                      |                      |            | 28.26                          |                                                                       | 0                                                                         | 53                              |                                          | 27                                                     |                                         | n                                                          | n         | N          |  |
| 42        | 100          |                     | 0                                         | 0                                                                 |          | 0                                      |                      | 0          | 25.12                          |                                                                       |                                                                           | 0                               | -                                        | 0                                                      |                                         | r                                                          | r         | R          |  |
| 43        | 100          |                     | 0                                         | 0                                                                 |          | 0                                      |                      | 0          | 18.84                          |                                                                       | 17.5                                                                      | 0                               |                                          | 0                                                      |                                         | r                                                          | r         | R          |  |
| 44        | 95           |                     | 21                                        | 0                                                                 |          | 0                                      |                      | 0          | 128.7                          | 67.5                                                                  | 17.5                                                                      | 52                              |                                          | 33                                                     |                                         | n                                                          | n<br>r    | N          |  |
| 45<br>46  | 100          | 1                   | 0                                         | 0                                                                 |          | 0                                      |                      | 0          | 3.14<br>6.28                   |                                                                       | 0                                                                         | 0                               |                                          | 0                                                      |                                         | r                                                          | r<br>r    | R<br>R     |  |
| 40        | 100          | 2                   | U                                         | U                                                                 | U        | U                                      | U                    | U          | 0.28                           | U                                                                     | U                                                                         | U                               | U                                        | U                                                      | ] [                                     | Į.                                                         | <u> '</u> | <u>I</u> n |  |

|                     |                        | 3****          | *************************************** |            | *************************************** | ROMEN SAMMA    | *********    |                    | -        |                |             | *********** | *******    | *************************************** | ************ | ************ | *************************************** | *********** |            |            |            |               |           | *************************************** | -                |               | ******                                 | ******* |                      | ***********         |          |                     |          |          |       |
|---------------------|------------------------|----------------|-----------------------------------------|------------|-----------------------------------------|----------------|--------------|--------------------|----------|----------------|-------------|-------------|------------|-----------------------------------------|--------------|--------------|-----------------------------------------|-------------|------------|------------|------------|---------------|-----------|-----------------------------------------|------------------|---------------|----------------------------------------|---------|----------------------|---------------------|----------|---------------------|----------|----------|-------|
|                     |                        | 0 cı           | n                                       |            | AND THE PERSON NAMED IN COLUMN          |                | ************ | 3cm                | В        | utt            | ern         | ut          | Da         | ata                                     | C            | oll          | ect                                     | tio         | n F        | orı        | n ′        | 1 - 1         | 20        | 10                                      | Ed               | liti          | on                                     | ******* | ************         | **********          | 15cı     | n                   |          |          |       |
|                     |                        | evor II        | 4                                       | П          | Ц                                       | 5              | 7            |                    |          |                |             |             |            |                                         |              |              |                                         |             | TER        |            |            | -             | <u> </u>  |                                         |                  |               |                                        |         | m/y                  | VVV                 | /)       |                     |          |          | _     |
|                     | or B                   | HA#            | 1                                       | <u> </u>   | Ľ                                       | 1              | 1            |                    |          |                |             |             | 27         |                                         | 1.811        |              |                                         |             |            |            |            |               |           |                                         | T <sub>1</sub>   | 5             | <u>.</u>                               | - Fa    | 16                   | ֓֞֓֞֝֝֟֝֝֝ <u>֟</u> | 12       | 10                  | ,        | 2        | l     |
|                     | <u>Sha</u>             | ded            | <u>fiela</u>                            | ls a       | <u>re l</u>                             | <u>mai</u>     | <u>nd</u>    | ato                | ry f     | or E           | <u>Butt</u> | err         | <u>rut</u> | <u>He</u>                               | <u>alti</u>  | 1 A          | sse                                     | <u>SSI</u>  | <u>ner</u> | <u>its</u> |            |               |           |                                         |                  |               |                                        | L       |                      |                     |          | 1,5                 |          |          | ı     |
| Surv                | -                      | Fire           | <sup>3</sup> 4                          | A          | M                                       | 16             | 5            |                    |          |                |             |             |            |                                         |              | _as          | t                                       | . €         | 5          | L          | 1          | $\epsilon$    |           |                                         |                  |               |                                        |         |                      |                     |          |                     |          |          |       |
| Cont                | act                    | Ema            | ii 3                                    | A          | M                                       | $\epsilon$     | Ts           | 5.                 | Τι       | $\epsilon$     | 3           | し           | ı          | E                                       | 0            | 5            | T                                       | A           | 7          | 7          | E          | c             |           | c                                       | 0                | M             |                                        | Ī       |                      |                     |          | T                   |          | 7        |       |
|                     | Telej                  | phone          | ंडि                                     | Īī         | 9                                       | ൲              | 寸            | 6/1                | Ţ,       | ह्य            | 5           | 2           | 3          |                                         | Te           | leph         | one                                     | Oth         | ner (      |            |            |               | 1         | T                                       | Τ                | 1             | T                                      | T       | T                    | 7                   |          | Ť                   | Ť        | _        | ٦     |
| _                   |                        |                | <u> </u>                                | 1<br>F     | Ì                                       | <u> </u>       | ≐            |                    | !        |                | <u> </u>    |             | <u> </u>   |                                         |              | _            |                                         |             |            |            | <u> </u>   |               | <u></u>   | +                                       |                  |               |                                        |         | <u> </u>             | <u></u>             | <u> </u> | T 1                 |          |          | 르     |
| Prop<br>Own         | -                      |                | Fir                                     | L'         |                                         | 2   1          | <u></u>      | 4                  | _        | _              | _           | _           | _          | 4                                       | 4            |              | La                                      | Su          | 7          | \ (        | \ <b>(</b> | YE            | 1         |                                         |                  |               | _                                      | _       | _                    | <u> </u>            |          |                     |          |          |       |
| (check              |                        | e <sup>C</sup> | or C                                    |            | oan                                     | <u>y [</u>     | 4            | प                  | 0        | 2              | <u> </u>    | <u> </u>    | ) [c       | 4                                       | <u> </u>     |              |                                         |             |            |            |            | <u> </u>      | <u> </u>  |                                         |                  |               |                                        |         |                      | _                   | <u> </u> | Щ                   |          |          |       |
| as surv             | eyor)                  |                | Ema                                     | ail Ţ      | > -                                     | r              | ما           | A                  | 6 6      | : ૯            | 6           | <u> </u>    | 4          | <u> </u>                                | 2 0          | 2            | 2 (                                     | 7           | <u> </u>   | c          | . ر        | 2 (           | 1         |                                         |                  |               |                                        | $\perp$ |                      | _                   | <u></u>  |                     |          |          |       |
|                     |                        | Telep          | hone                                    | ۰([        | 1 (                                     | 1 6            | <u>。</u> )   | 3                  | Ч        | 5              | 6           | 5           | 9          | 6                                       | Tel          | leph         | one                                     | Oth         | ner (      |            |            |               | $\square$ |                                         |                  | $\mathbb{H}$  |                                        |         |                      | $\rfloor_{x}$       |          |                     |          |          | brack |
| Propert             |                        |                |                                         | ıg a       | ddr                                     | ess            | ;            |                    |          |                |             |             |            |                                         |              |              | , i                                     |             |            | ,          |            |               |           |                                         | 12.222           | <u> </u>      |                                        | Po      | stal                 | Со                  | de       |                     | F        | rov      |       |
|                     | A                      | ddres          |                                         | જ          | 3                                       |                | C            | P                  | 4        |                | 2           | 7           | R          | ٤                                       | ٤            | $\tau$       |                                         | S           | 0          | J          | 7          | 4             | T         | 9                                       | 4                | e             | ~                                      | 7       | 5                    | 6                   | 2        | P                   | <u> </u> | 의        | N     |
|                     |                        | Cit            | <b>y</b>                                | 0          | R                                       | 0              | 7            | 7                  | 0        |                |             |             |            |                                         |              |              | <u> </u>                                |             |            |            |            |               |           |                                         |                  |               |                                        |         |                      |                     |          |                     |          |          |       |
| Tree Lo             |                        | Na House       |                                         | nt fi      | rom                                     | ı ma           | aili         | ng a               | ddi      | ess            | )           |             | . 2-22224  | Carrente                                | and a second |              |                                         | san san     |            |            |            | 1.2000        |           | 6.00                                    |                  |               | ************************************** |         |                      |                     |          |                     |          |          |       |
| Add                 | iress/(                |                |                                         | $\epsilon$ | 7                                       | W              | $\epsilon$   | $\epsilon$         | ~        |                | Τ           | Ó           | لى         | ~                                       | L            | ı            | u                                       | $\epsilon$  | R          | 0          |            | L             | A         | 1                                       | ሌ                | m             | Λ                                      | ı       | 0                    | n                   | 0.       |                     |          |          |       |
|                     | Tow                    | nship          | L                                       | L          | Α                                       | R              | (            | 7                  | 6        | 7              | ٥           | 7           |            | 7                                       | S            | R            | τ                                       | H           |            | 0          | ۶          |               | c         | o                                       | 71               | c.            | 7                                      | -       | Lot                  |                     |          | Co                  | <u> </u> | <u> </u> |       |
| Direction           | ns                     | 1              | City                                    |            |                                         |                |              |                    |          |                |             |             | <u> </u>   |                                         |              |              |                                         |             |            |            |            |               |           |                                         |                  |               |                                        |         |                      |                     |          |                     |          |          |       |
| > (                 | ☑ Ye<br>☑ Ye<br>Greate | s [            | ] No                                    |            |                                         | e vis          | sits         | e Lo<br>OK'<br>ern | ? (      | prio           | r arı       | rang        | gme        | nts                                     | will         | alv          | ays                                     | be          | mad        |            |            |               |           | t)                                      | 94 (945<br>-     |               | Pro                                    | per     | ty D                 | esc                 | ripti    | on                  |          |          |       |
| < (                 | Less t                 | han)           |                                         |            | (Do                                     |                |              | ta.                |          |                |             |             |            |                                         |              |              |                                         |             | _          | for        | c ea       | ch)           | _         | (8                                      | area             | a(s)          | COI                                    | ntai    |                      | <b>j</b> Bu         | ıtter    | nut)                |          |          |       |
| Tree Co             | onditio                | n<br>          |                                         |            |                                         | <br>           |              | < 3                | cm       | ]<br>          | 3           | -15         | cn         | ) ¦                                     |              | 16-          | 30c                                     | m¦          |            | >          | 30         | cm            |           |                                         | _                | y Up<br>Slo   |                                        |         |                      |                     |          | toml:<br>iable      |          |          |       |
| Vigorou<br>Minor oi |                        |                |                                         | row        | n                                       | *              |              | 0                  | 2        |                |             | 2           | 2          |                                         |              | ſ            | 0 5                                     | 5           | •          | ſ          | 0          | ī             | X         | Tal                                     | blel             | and           |                                        |         |                      |                     | Unl      | know                | 'n       | v        | _     |
| Poor Vi             | gor: <                 | 50% I          | _ive                                    |            |                                         |                |              |                    | <br>T    | -<br><br>]   • |             |             |            |                                         | •            | - <u>-</u>   |                                         |             |            | <br>-      |            |               |           | ] 0                                     |                  |               | atic                                   | on C    | omi                  | mur                 | nity/i   | i <b>es</b><br>Fenc | erov     | N        |       |
| or >50° canker      |                        |                | n +                                     | hea        | vily                                    | .l<br>.l<br>.l |              | <u></u>            | <u> </u> | ] ′            | •           | 0           | γ          | إلا                                     |              | Ľ            | 0                                       | 2           |            | Ŀ          | 이          | 긔             |           | -                                       |                  | land<br>uou   |                                        | rac     | •                    |                     |          | Roac<br>Quar        |          | 9        |       |
| Dead                |                        |                |                                         |            |                                         |                |              | Го                 |          | 1              |             | Гс          | <u>ا</u> د | ]                                       |              | F            | \T.                                     |             |            | [          | <u>ا</u> ت |               |           |                                         |                  | erFo          |                                        |         |                      |                     |          | Urba                | -        | rd       |       |
| Deau                |                        |                |                                         |            | ~~~                                     | <u>i</u>       |              | Ľ                  | 17       | ]              |             | L           | 1          | 1                                       |              |              |                                         |             |            | L          |            | 의             |           | -                                       |                  | lFor          | est                                    |         |                      |                     |          | Urba                | nPa      | rk       |       |
| Histo               | rica                   | 11y,           | do                                      | sc         | me                                      | , t            | re           | es                 | pr       | odu            | ce          | se          | ed         | s?                                      | □ <b>`</b>   | 1            |                                         | N           | Þ          | <b>1</b> U | nko        | wn            | ř         | the                                     | $\frac{r}{\top}$ | Т             | Т                                      | Т       | Т                    | Т                   | Τ        | П                   |          | T        |       |
|                     | ted area               |                |                                         |            |                                         |                | $\Box$       |                    |          |                | cre         | s           |            | Не                                      | ctar         | es           |                                         |             |            |            |            |               | <u>_</u>  |                                         |                  |               | i_                                     |         |                      |                     | <u> </u> |                     |          |          | -     |
|                     |                        |                |                                         |            |                                         |                |              |                    |          |                |             |             |            |                                         |              |              |                                         |             |            |            |            |               |           |                                         |                  | inag<br>Irair | _                                      |         |                      |                     |          | Soi<br>□ >          |          | -        |       |
|                     |                        |                |                                         |            |                                         |                |              |                    |          |                |             |             |            |                                         |              |              |                                         |             |            |            |            | -             | X         | Мо                                      | der              | atel          | y D                                    |         | ed                   |                     |          |                     |          |          |       |
|                     |                        |                |                                         |            |                                         |                |              |                    |          |                |             |             |            |                                         |              |              |                                         |             |            |            |            | -             |           | Po<br>Un                                | -                | Dra<br>wn     | aine                                   | ea      |                      |                     |          | _ <                 |          |          |       |
|                     |                        |                |                                         |            |                                         |                |              |                    |          |                |             |             |            |                                         |              |              |                                         |             |            |            |            | -             |           |                                         |                  | ture          | )                                      |         |                      |                     |          |                     | /aria    | ble      |       |
|                     |                        |                |                                         |            |                                         |                |              |                    |          |                |             |             |            |                                         |              |              |                                         |             |            |            |            |               |           | Cla<br>Cla<br>Loa                       | ay<br>ay L<br>am | .oan          | n                                      |         | ] Sa<br>] Va<br>¶ Ur | ıriab               |          | <b>⊠</b> (          | Jnkr     | IWOI     | ו     |
|                     | Please                 | enter          | mate                                    | chin       | g nı                                    | ume            | rica         | al pa              | ge l     | ink d          | ode         | on          | fori       | ns '                                    | 1 an         | d 2          |                                         |             |            | p          | leae       | - ∣<br>e reti |           |                                         |                  | / Sa          | ırıd                                   |         |                      |                     |          |                     |          |          |       |

01

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Fill when Form 1 indicates canker is well established. The information opn Form 2 must be filled out for all trees when doing a

| Shaded fields are mandatory for Butternut Health Assessments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | must be filled out for all trees when doing a Butternut Health Assessment.                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Site Code(A,B,Z, AA) Surveyor ID or BHA #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Date (dd/mm/yyyy)                                                                                                         |
| Surveyor Last Name LESLIE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 30-05-2012                                                                                                                |
| Tree ID Numbering: 1,2,3,Starting from 1 for each site Tree # Zone Easting Northing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                           |
| 00 1 1 7 6 5 6 5 4 2 4 8 7 8 3 8 7 Assess below                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Metres from badly cankered tree  ☐ < 40 ☐ > 40 ☒ None Found                                                               |
| Crown Class Crown % D Below crown Seed Crown % D Crown % D Crown % D Crown % D Crown Seed D Crown Seed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | #Open #Sooty Competing Species                                                                                            |
| Twig Dieback Butternut Signs Origin Male Flowers Bark Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | =<2m89 85 V 1 T R 1 P A                                                                                                   |
| Defoliation Planted Seed Set Set Seed Set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | >2m 00 00 R HACATH                                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2 2                                                                                                                       |
| Constant the second of the constant of the second of the s | L-3                                                                                                                       |
| 007 176566754878421 Assess below                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                           |
| Crown C S Live Main Stem Length(m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | #Open #Sooty Competing Species                                                                                            |
| ☑ Twig Dieback ☐ #Stems Butternut ☐ Signs ☐ Bark Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Root 0 0 0 5 0 4 6 C 1 N E = <2m 0 0 0 7 V 1 7 R 1 0 A                                                                    |
| Branch Dieback Natural Female Flowers  Defoliation Planted Seed Set  Valuate  Valuate  Valuate  Valuate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | =<2m 0 0 0 7                                                                                                              |
| Unknown None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | PIC #4                                                                                                                    |
| Tree # Zone Easting Northing  0 0 3 1 7 6 5 6 8 6 8 6 8 6 9 6 9 6 9 6 9 6 9 6 9 6 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | live crown  Metres from badly cankered tree  □ < 40 □ > 40 ☒ None Found                                                   |
| Crown Class Crown % Below crown Seed #Epic-Live                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | #Open #Sooty Competing Species                                                                                            |
| Twig Dieback   Butternut   Signs   Bark Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Root 0 0 0 2 A C E S A S A =<2m 0 ( 0 8                                                                                   |
| Defoliation Deback   Repair   Planted   Seed Set   Wounds                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | >2m 0 1 0 8 3 4 6 C 1 M E N                                                                                               |
| Unknown W None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                           |
| HEICHT ~13m; Pic#5  Tree # Zone Easting Northing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                           |
| 004176727624872683Assess below                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Metres from badly cankered tree  □ < 40 □ > 40 ☒ None Found                                                               |
| 2 Crown Class Q 5 Live Main Stem Length(m) #Epic-Live Below crown Seed #Epic-Dead                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | #Open #Sooty Competing Species                                                                                            |
| Twig Dieback Butternut Signs Bark Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Root o o o o o o o o o o o o o o o o o o                                                                                  |
| Defoliation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | $= <2m \circ \circ$ |
| Unknown ki Norie                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 93.53%                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | TRIPA - DIFFICULT TO ASSET                                                                                                |
| Tree # Zone Easting Northing  O O 5 1 7 6 5 7 1 3 5 4 8 7 8 7 4 1 Assess below  The sign by the sign b | Metres from hadly cantered tree                                                                                           |
| #Epic-Live                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                           |
| Crown Class Crown % Q q Main Stem Length(m) Below crown Seed 2 2 #Epic-Dead                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | #Open #Sooty Competing Species                                                                                            |
| Class Common Seed  Twig Dieback Stems Origin Male Flowers  Butternut Signs  Origin Bark Type  Bark Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Root o a a S A C E S A S A                                                                                                |
| Class Cookin % Cookin % Cookin Seed  ☐ Twig Dieback                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                           |
| ☐ Class ☐ ☐ ☐ Crown % ☐ ☐ Below crown ☐ Seed ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Root 0 0 0 5 A C E S A S A = <2m 0 0 1 % T 1 L A M E M                                                                    |

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(Contact Information follows all applicable privacy policies and guidelines)

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(PLEASE USE BLOCK LETTERS)

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| Surveyor ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Butternut Health Assessment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| Site Code(A,B,Z, AA) or BHA# \(\begin{array}{c} \( \begin{array}{c} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Date (dd/mm/yyyy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| Crown Company  | *Open #Sooty Competing Species                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| ☐ Defoliation ☐ Planted ☐ Seed Set ☐ Discolouration ☐ Unknown ☐ Unknown ☐ None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 이 ( Wounds > 2m 이 이 이 이 이 이 이 이 이 이 이 이 이 이 이 이 이 이                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| Crown Live Main Stem Length(m) Class Crown % 5 Below crown Seed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | #Open #Sooty Competing Species  **Application of the content of th |
| ☐ Twig Dieback ☐ #Stems Butternut ☐ Male Flowers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | S Bark Type =<2m 0 0 1 1 1 4 6 6 1 7 €                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| ☐ Branch Dieback ☐ ☐ Natural ☐ Female Flowers ☐ Defoliation ☐ ☐ ☐ Planted ☐ Seed Set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | △ ○ # Callused >2m ○ ○ ○ ○ ○ ○ △ A L ✓ S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| HE1647 ~ 11m; PIC 25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Tree # Zone Easting Northing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Assess below live crown Metres from badly cankered tree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| Branch Dieback   Wolering Urigin Cristing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | S Bark Type =<2m as as C H A C A T H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| HEIGHT ~ 11M; PIC 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Control of the section of the sectio |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Tree # Zone Easting Northing 009176726814872683                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Assess below live crown  Metres from badly cankered tree  □ < 40 □ > 40 ☒ None Found                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Crown Live Live Length(m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | #Open #Sooty   Competing Species                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Class C Crown % Below crown Seed  Twig Dieback #Stems Origin Male Flowers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | OI #Epic-Dead Root OOOI ALENEGY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| HEIGHT ~ 5m; PICS 27-28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| Crown Live Main Stem Length(m) Class Crown % Below crown Seed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | #Open #Sooty   Competing Species                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| ☐ Twig Dieback ☐ #Stems Butternut ☐ Male Flowers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | C Bark Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Branch Dieback Natural Female Flowers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2 2 # Callused                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Discolouration DBH(cm) Unknown None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3 2 Wounds >2m 0 0 0 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| HEIGHT - 3m; 200 STEM 3cm DBH; VI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | INES THROUGHOUT CAMOPT; PICS 29-31                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

Please enter matching page link code on forms 1 and 2 Page Link

(Contact Information follows all applicable privacy policies and guidelines)

Please return forms to: Forest Gene Conservation Association Suite 233, 266 Charlotte St. Peterborough, ON, K9J 2V4 www.faca.net





(PLEASE USE

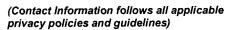
BLOCK LETTERS)

Fill when Form 1 indicates canker is well established. The information opn Form 2 must be filled out for all trees when doing a

| Shaded fields are mandatory for Butternut Health                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Assessments must be filled out for all trees when doing a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           |
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| Site Code(A,B,Z, AA)  Surveyor ID or BHA #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Butternut Health Assessment.  Date (dd/mm/yyyy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |
| Surveyor Last Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 30-05-2012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -<br>-    |
| Tree ID Numbering: 1,2,3,Starting from 1 for each site Tree # Zone Easting Northing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | - Charle Market - In- Definition 1 (2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |
| 011176726274872775                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Assess below live crown                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |
| Crown / A S Live Main Stem Length(m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | #Open #Sooty Competing Species                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |
| ☐ Twig Dieback ☐ #Stems ☐ Crown % ☐ ☐ Below crown Seed  Butternut Signs  Origin ☐ Male Flowers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | O O #Epic-Dead Root O O O O FRAAME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | R         |
| Branch Dieback Natural Female Flowers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | SBark Type =<2m0000 MALUS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | _         |
| ☐ Defoliation ☐ Discolouration ☐ Discolouration ☐ Discolouration ☐ Discolouration ☐ Unknown ☐ None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | O                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           |
| Deer browse at base; Pics #15-16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |
| Tree # Zone Easting Northing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Metres from badly cankered tre                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ee        |
| 012176551164879373                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Assess below live crown                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |
| Crown Class C 9 5 Live Main Stem Length(m) Class C 9 5 Crown % D Below crown Seed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | #Open #Sooty Competing Species                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | $\supset$ |
| ☐ Twig Dieback ☐ #Stems Butternut Signs ☐ Male Flowers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Bark Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | R         |
| Branch Dieback Natural Female Flowers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | S   S   S   S   S   S   S   S   S   S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           |
| ☐ Discolouration ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | wounds                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <u>ت</u>  |
| ~ 14 m tall; Pics # 17 - 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |
| Tree # Zone Easting Northing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Assess below live crown Metres from badly cankered tre                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |
| 01311768632061418179349                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | #Epic-Live #Open #Sooty Competing Species                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | nd        |
| Crown Class O 9 5 Live Main Stem Length(m) Below crown Seed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | OO#Epic-Dead Root OOO OSTVIR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 4         |
| ☐ Twig Dieback #Stems Butternut Signs Male Flowers ☐ Branch Dieback #Stems FI Natural ☐ Female Flowers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | S Bark Type =<2m OOO   FRAAME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | R         |
| Defoliation Defoliation Planted Seed Set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0 2 #Callused >2m ○ ○ ○ □ □ V G C ( A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | E         |
| Discolouration UI 19 DBRIGHT Unknown None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |
| Tree # Zone Easting Northing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | State of the State |           |
| 014176562934879438                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Assess below live crown  Metres from badly cankered tre    < 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |
| Crown Live 7 Main Stem Length(m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | #Open #Sooty Competing Species                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |
| Class Crown % D Below crown Seed  Twig Dieback #Stems Origin Male Flowers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Bark Type Root O O O O U V G C L N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | E         |
| Branch Dieback Natural Female Flowers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 4         |
| ☐ Defoliation ☐ Discolouration ☐ Discol | O                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           |
| ~ 14m tall: Pic 21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |
| Tree # Zone Easting Northing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Metres from badly cankered tr                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ee        |
| 015176552084879251                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Assess below live crown                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |
| Crown   O Class   O Crown % O 7 Below crown Seed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | #Open #Sooty Competing Species  Root O O 2 B F T P A P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | U         |
| Twig Dieback #Stems Butternut Signs Male Flowers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | S Bark Type =<2m 0 0 0 0 M A L V S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 4         |
| ☐ Branch Dieback ☐ ☐ Female Flowers ☐ Defoliation ☐ ☐ Planted ☐ Seed Set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0 0 # Callused                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |
| Discolouration Unknown None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 〓         |
| ~ 12 m tall; Pic 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |
| Please enter matching page link code on forms 1 and 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Please return forms to:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |

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Page Link







(PLEASE USE BLOCK LETTERS)

Fill when Form 1 indicates canker is well established. The information opn Form 2 must be filled out for all trees when doing

| Surveyor Last Name   E  5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Shaded fields are mandatory for Butternut Health Assessments                                                                                                                                                                  | must be filled out for all trees when doing a Butternut Health Assessment. |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| Tree # Zone   Sasting   Northing   Seed Set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                               | Date (dd/mm/yyyy)                                                          |
| Tree # Zone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Surveyor Last Name LESLIE                                                                                                                                                                                                     | 30-05-2012                                                                 |
| Seed Set   Set   Seed Set   Set   Seed Set   |                                                                                                                                                                                                                               |                                                                            |
| Class   Converted by Converted   Converted by Converted   | 5 1 6 1 7 6 7 7 7 4 4 8 7 2 6 8 4Assess below                                                                                                                                                                                 |                                                                            |
| Substant   Maile Flowers   Mail   | Crown Live Main Stem Length(m)                                                                                                                                                                                                | #Open #Sooty Competing Species                                             |
| Second   S   | Twig Dieback #Stems Butternut Signs Signs Bark Type                                                                                                                                                                           |                                                                            |
| Tree # Zone   Easting   Northing   Assess below live crown   Metres from bady cankered tree   Assess below live crown      | □ Defoliation □ C □ DBH(cm) □ Planted □ Seed Set □ Wounds                                                                                                                                                                     |                                                                            |
| Tree # Zone Easting Northing    Assess below live crown   Metres from badly cankered tree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Unknown 1/25-None                                                                                                                                                                                                             |                                                                            |
| Seed Set   Wounds     | 711 14 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1                                                                                                                                                                                      | RUME BY SOLM STRIP BLACK CAPIC                                             |
| Scrown   O   Crown %   O   Balow crown Seed   Balow crown   Seed   Seed Set   Origin   Male Flowers   Seed Set   Origin   Male Flowers   Seed Set   Origin   Origin   Male Flowers   Seed Set   Origin    | 017176726314872794 Assess below                                                                                                                                                                                               |                                                                            |
| Tree # Zone   Easting   Morthing   Morthin   | Crown Live Main Stem Length(m)                                                                                                                                                                                                | #Open #Sooty Competing Species                                             |
| Search Defoliation   Planted   Seed Set   Wounds   Planted   Seed Set   Wounds   Planted   Seed Set   Wounds   Planted   Seed Set   Planted      | Twig Dieback Butternut Signs Bark Type                                                                                                                                                                                        |                                                                            |
| Unknown   None   None   None   Northing   Northing   Stems     | □ Branch Dieback □ □ Rahural □ Female Flowers □ # Callused □ Defoliation □ Planted □ Seed Set □ Wounds                                                                                                                        |                                                                            |
| Tree # Zone Easting Northing    Assess below live crown   Metres from badly cankered tree   Competing Species   Competing Spec | Unknown Mone                                                                                                                                                                                                                  | ± 1_                                                                       |
| Assess below live crown    Assess below live crown                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                               |                                                                            |
| Crown                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                               |                                                                            |
| Twig Dieback   #Stems   Butternut   Male Flowers   Slans   S   | Crown                                                                                                                                                                                                                         | #Open #Sooty Competing Species                                             |
| Seed Set   Seed Sed    | Twig Dieback Butternut Signs Slark Type                                                                                                                                                                                       | ROOT OF OF PAIREM                                                          |
| Discolouration   Disc   | ☐ Branch Dieback ☐ Send Flowers ☐ Female Flowers ☐ # Callused ☐ Seed Set ☐ # Callused                                                                                                                                         | 2200                                                                       |
| Tree # Zone Easting Northing    Crown                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ☐ Discolouration ☐ ☐ Unknown ☐ None ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐                                                                                                                                                     |                                                                            |
| Assess below live crown                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | HEIGHT ~ LIM; PIC # 11                                                                                                                                                                                                        |                                                                            |
| Crown   Class   Crown %   Crown &    |                                                                                                                                                                                                                               | V IIVA CTOWN                                                               |
| Class   Crown %   Below crown   Seed   Butternut   Male Flowers   Female Flowers   Female Flowers   Planted   Defoliation   Discolouration     | Crown Live Main Stem Length(m) #Epic-Live                                                                                                                                                                                     | #Open #Sooty   Competing Species                                           |
| Branch Dieback   Planted   Seed Set   Seed Set   Planted   Planted   Seed Set   Planted   Seed Set   Planted   Seed Set   Planted   Planted   Seed Set   Planted   Pla   | Class Crown % Below crown Seed #Epic-Dead                                                                                                                                                                                     |                                                                            |
| Discolouration   Disc   | Branch Dieback Natural Female Flowers                                                                                                                                                                                         | =<2m 0 0 0 Z                                                               |
| Tree # Zone Easting Northing    Assess below live crown   Competing Species                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Bellomation   Seed Set   Maunds                                                                                                                                                                                               | >2m                                                                        |
| Assess below live crown    Crown   Class   Crown %   Below crown   Seed Signs   Defoliation   Discolouration   Discolouration | MANY CAMERS MEAR BASE; PICS 12-13                                                                                                                                                                                             |                                                                            |
| Crown   Class   Crown   Class   Crown   Crown   Class   Crown   Class   Crown   Class   Crown   Crown   Crown   Class   Crown   Crow   |                                                                                                                                                                                                                               | Metres from hardy cankered tree                                            |
| Crown   Class   Crown   Crown   Seed   Below crown   Seed   Signs   Callused   Seed    | #Epic-Live                                                                                                                                                                                                                    | ✓ < 40 □ > 40 Kine Found                                                   |
| Twig Dieback                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3 Crown Class (OOC) Live Below crown Seed #Epic-Dead                                                                                                                                                                          |                                                                            |
| □ Defoliation □ Discolouration □ Discol  | ☐ Branch Dieback ☐ Female Flowers ☐                                                                                                                                                                                           | =<2mass PSPTREM                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Defoliation Discolouration | >2ma a a a a                                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                               |                                                                            |

Please enter matching page link code on forms 1 and 2

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(Contact Information follows all applicable privacy policies and guidelines)



(PLEASE USE **BLOCK LETTERS**)

Shaded fields are mandatory for Butternut Health Assessments

Fill when Form 1 indicates canker is well established. The information opn Form 2 must be filled out for all trees when doing a

| Surveyor ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Butternut Health Assessment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| Site Code(A,B,Z, AA) Surveyor 15 or BHA #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Date (dd/mm/yyyy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Surveyor Last Name LESLIE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 36-65-2012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Tree ID Numbering: 1,2,3,Starting from 1 for each site Tree # Zone Easting Northing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 0211767266114872624 Assess below                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ☐ < 40 ☐ > 40 ☑ Found                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Crown Class / OO Live Dalmain Stem Length(m) Class / OO #Epic-Dead                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | #Open #Sooty Competing Species  Root O O O O O O O O O O O O O O O O O O                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Twig Dieback #Stems Butternut Signs Origin Male Flowers S Bark Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | =<2m0000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| □ Defoliation □ Discolouration □ Discolouration □ Discolouration □ Discolouration □ Unknown □ None □ Discolouration □ Unknown □ None □ Discolouration □ Unknown □ None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | >2m 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| ~ 2m tall; Main stem broken off Inechanica                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | al - Lateral stem is now main                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Tree # Zone Easting Northing da Mage)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Metres from badly cankered tree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 022176726574872616 Assess below #Epic-Live                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | □ < 40 □ > 40 □ Note Found                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Crown Class O 9 5 Live D 2 Main Stem Length(m) Class February Washington Crown Seed #Epic-Dead                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Root Competing Species                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Twig Dieback                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | =<2m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Defoliation Discolouration Discolour | >2m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| ~16m tall: 2nd stem 37cm DBH: PICS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 34-35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Tree # Zone Easting Northing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 023176726604872663 Assess below #Epic-Live                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | live crown   □ < 40 □ > 40 □ None Found                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Crown Class Crown % D Below crown Seed Crown % D Crown % D Below crown Seed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | #Open #Sooty   Competing Species   V   T R   P A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Twig Dieback #Stems Butternut Signs Male Flowers S Bark Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | =<2m 00000 JUGCINE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Defoliation Discolouration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | >2m 0 0 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| VIIm tall: DICS 36-37; Possible hubric                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Tree # Zone Easting Northing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 024176726594872601 Assess below                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Metres from badly cankered tree  ☐ < 40 ☐ > 40 ☐ None Found                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Crown Class Q 9 5 Live Q 2 Main Stem Length(m) Class Q 0 0 #Epic-Live Q 0 #Epic-Dead                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | #Open #Sooty Competing Species                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Twig Dieback / #Stems Butternut Signs Bark Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Root 0 0 0 4 5 4 6 ( N E =<2m 0 0 0 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Defoliation Seed Set # Callused                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | >2m 0 0 0 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| ☐ Unknown D⊈ None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| NAM tall; PIC 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Tree # Zone Easting Northing 0 2 5 1 7 6 7 2 6 6 2 4 8 7 2 6 0 2 Assess below                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | live crown  Metres from badly cankered tree  □ < 40 □ > 40 ☒ None Found                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 2 Crown / O Live Main Stem Length(m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | #Open #Sooty Competing Species                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Twig Dieback                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Root 0 1 0 2 J U G C 1 ME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| □ Defoliation □ Deh(cm) □ Planted □ Seed Set □ 2 # Callused □ Seed Set □ 2 Wounds                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | >2m 0 0 0 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Unknown Manone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | And the second s |
| Diagon automorphism many limit and automorphism to 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

Please enter matching page link code on forms 1 and 2

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(Contact Information follows all applicable privacy policies and guidelines)





(PLEASE USE **BLOCK LETTERS**)

Shaded fields are mandatory for Butternut Health Assessments

Fill when Form 1 indicates canker is well established. The information opn Form 2 must be filled out for all trees when doing a

| Surveyor ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Butternut Health Assessment.                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| Site Code(A,B,Z, AA) or BHA#                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Date (dd/mm/yyyy)                                                       |
| Surveyor Last Name LESLIE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 36-05-2012                                                              |
| Tree ID Numbering: 1,2,3,Starting from 1 for each site  Tree # Zone Easting Northing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                         |
| 0 2 6 1 7 6 7 2 6 6 6 4 8 7 2 6 6 5 Assess below                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Metres from badly cankered tree  □ < 40 □ > 40 ☒ None Found             |
| 2 Crown Class O 9 5 Live O 2 Below crown Seed Crown % Epic-Dead                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | #Open #Sooty Competing Species Root O U U G C I D E                     |
| ☑ Twig Dieback #Stems Butternut Signs Male Flowers ☐ Branch Dieback W #Stems ☑ Natural ☐ Female Flowers ☐ □ # Callused                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | =<2m0007                                                                |
| ☐ Defoliation ☐ Discolouration ☐ Discol | >2m () () () ()                                                         |
| Height v H. 5m tall; Pics 40-41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ·                                                                       |
| Tree # Zone Easting Northing  Assess below                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | live crown Metres from badly cankered tree                              |
| Crown                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | #Open #Sooty Competing Species                                          |
| 2 Class                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Root 6002 VITRIPA                                                       |
| ☐ Branch Dieback ☐ Watural ☐ Female Flowers ☐ # Callused                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | =<2m0006 JUGC(N)                                                        |
| Discolouration Unknown None Unknown                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                         |
| Height N 4.5m; Pics H2-43.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                         |
| Tree # Zone Easting Northing  0 2 8 1 7 6 7 2 6 6 4 4 8 7 2 5 7 2 Assess below                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | live crown Metres from badly cankered tree                              |
| Crown I live [ Main Stem Length(m)]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | #Open #Sooty Competing Species                                          |
| Class Class Crown % 62 Below crown Seed 0 #Epic-Dead                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ROOTOOOD VITRIPA                                                        |
| ☐ Twig Dieback                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | =<2m00000 R + 1 A C A T H                                               |
| □ Defoliation □ Discolouration □ Discolouration □ Discolouration □ Unknown □ None □ Natural □ Female Flowers □ # Callused □ Wounds                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | >2m0000                                                                 |
| Height 2 4.5M; PIC 44-45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                         |
| Tree # Zone Easting Northing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                         |
| 029176726684872566 Assess below                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Metres from badly cankered tree  □ < 40 □ > 40 ☑ None Found             |
| 2 Crown Class 100 Live Main Stem Length(m) Below crown Seed #Epic-Dead                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | #Open #Sooty Competing Species                                          |
| ☐ Twig Dieback ☐ #Stems ☐ Butternut ☐ Male Flowers ☐ Branch Dieback ☐ #Stems ☐ Natural ☐ Female Flowers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | =<2m 00 01 VITRIPA                                                      |
| □ Defoliation □ Discolouration □ Discolouration □ Discolouration □ Unknown □ None □ Natural □ Female Flowers □ # Callused □ Wounds □ Unknown □ None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | >2m 00 0 0                                                              |
| Height ~ 4.5; Pic 46-47                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                         |
| Tree # Zone Easting Northing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2.72                                                                    |
| 030176726684872548 Assess below                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | live crown  Metres from badly cankered tree  □ < 40 □ > 40 ☒ None Found |
| Crown Class / O Crown % Main Stem Length(m) Class / O #Epic-Dead                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | #Open #Sooty Competing Species  Root OOOOV ITRIPA                       |
| Didnoi Diguale Landia Company | =<2m0000 MALUS                                                          |
| □ Branch Dieback □ □ Natural □ Female Flowers □ Defoliation □ Discolouration □ Discolouration □ Unknown □ None # Callused Wounds                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | >2m 00 00                                                               |
| Height v 5m; Pics 48-49.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                         |
| Please enter matching page link code on forms 1 and 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                         |

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(Contact Information follows all applicable privacy policies and guidelines)





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Fill when Form 1 indicates canker is well established. The information opn Form 2 must be filled out for all trees when doing a

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| Site Code(A,B,Z, AA) Surveyor ID or BHA #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Date (dd/m                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Surveyor Last Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 30-6                                             | 15 - 2012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Tree ID Numbering: 1,2,3,Starting from 1 for each site Tree # Zone Easting Northing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                  | The storic has a Average Average in the residence of the control o |
| 031176726784872515                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Assess below live crown  #Epic-Live #Open #Sooty | Metres from badly cankered tree  ☐ < 40 ☐ > 40 ☒ None Found                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Crown Class 1 0 Crown % D2 Main Stem Length(m)  Below crown Seed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | #Epic-Dead Root OOO                              | Competing Species                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| ☐ Twig Dieback #Stems Butternut Origin ☐ Male Flowers ☐ Branch Dieback #Stems ☐ Natural ☐ Female Flowers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | SBark Type =<2m                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| ☐ Defoliation ☐ Discolouration ☐ Discol | Wounds >2m                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Height N6M; Pic 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Tree # Zone Easting Northing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Assess below live crown                          | Metres from badly cankered tree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| $\frac{0 3 2 1+ 6 + 2 6 + 4 8 + 4 8 + 7 }{\text{Crown}}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | #Epic-Live #Open #Sooty                          | ☐ < 40 ☐ > 40 ☒ None Found  Competing Species                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Class Crown % D Below crown Seed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Bark Type                                        | ACENEGU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| ☐ Branch Dieback ☐ Natural ☐ Female Flowers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | S =<2m O O O                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| □ Defoliation □ Discolouration □ Discolouration □ Discolouration □ Unknown ☑ None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | © Wounds >2m ○○○○                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Height ~ 4m; some minor of-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | eer browse; PICS 5                               | 1-52.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Tree # Zone Easting Northing  0 3 3 1 7 6 7 26 8 9 4 8 72 6 4 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Assess below live crown                          | Metres from badly cankered tree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Crown Live Main Stem Length(m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | U#Epic-Live #Open #Sooty                         | ☐ < 40 ☐ > 40 ☑ None Found  Competing Species                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Class Crown % Delow crown Seed  Twig Dieback Signs Origin Male Flowers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Bark Type                                        | TILAMER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Branch Dieback Natural Natural Natural                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| □ Discolouration □ Inscolouration □ Discolouration □ Discolouration □ Unknown ☑ None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | # Callused >2m O O O                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Height ~ 9m, Pic 55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Tree # Zone Easting Northing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Assess below live crown                          | Metres from badly cankered tree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 034176726814872565<br>Crown 100 Live 57 Main Stem Length(m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2#Epic-Live #Open #Sooty                         | ☐ < 40 ☐ > 40 ☒ None Found  Competing Species                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Class Crown % D Below crown Seed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | C D #Epic-Dead Root O O I                        | JUGEINE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| □ Twig Dieback                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | I I I II I II I II                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| ☐ Defoliation ☐ Planted ☐ Seed Set ☐ Discolouration ☐ Discolouration ☐ Unknown ☒ None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | OOWounds >2mOOOO                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Height ~ 8m; Pic 55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Tree # Zone Easting Northing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | - Assess below live crown                        | Metres from badly cankered tree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 035176726824872568                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2 #Epic-Live #Open #Sooty                        | ☐ < 40 ☐ > 40 ☒ None Found  Competing Species                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Crown Class / O Crown % D Below crown Seed  Butternut D Signs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Ø ○#Epic-Dead Root ◎ 1 ○2                        | JUGCINE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Branch Dieback 3 #Stems Origin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | SBark Type =<2m O O O                            | VITRIPA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| ☐ Defoliation ☐ Discolouration ☐ Discol | Wounds >2m                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 2nd + 3rd stems are 6cm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 9 7cm DBH: Pic SE                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Please enter matching page link code on forms 1 and 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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| Shaded fields are mandatory for Butternut Health Assessments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | must be filled out for all trees when doing a<br>Butternut Health Assessment.     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Site Code(A,B,Z, AA) Surveyor ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Date (dd/mm/yyyy)                                                                 |
| Surveyor Last Name LESLIE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 30-05-2002                                                                        |
| Tree ID Numbering: 1,2,3,Starting from 1 for each site  Tree # Zone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | #Open #Sooty Root O O O O O O O O O O O O O O O O O O                             |
| □ Branch Dieback □ Natural □ Female Flowers □ Defoliation □ Discolouration □ Discolouration □ Discolouration □ Unknown ☒ None □ Wounds                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | >2m 0 0 0                                                                         |
| TYC 50 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                   |
| Tree # Zone Easting Northing  3 8 1 7 6 7 2 6 8 1 4 8 7 2 4 6 2  Crown Class Crown % Seed Signs Branch Dieback HStems Origin Natural Planted Seed Set Discolouration Discolouration None  Northing  Assess below General Repic-Live  #Epic-Live  #Epic-Dead  Signs Origin Natural Flowers  Planted Seed Set Wounds  Wounds                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | #Open #Sooty Root □ ○ □ ○ □ ○ □ ○ □ ○ □ ○ □ ○ □ ○ □ ○ □                           |
| Adjacent to stream; - Assessed Ju                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1000,2012                                                                         |
| Tree # Zone Easting Northing  O 3 9 1 7 6 7 2 6 3 7 4 8 7 2 6 4 7  Crown Class I O Crown % Delow crown Seed  Twig Dieback #Stems Origin Natural Planted Signs Origin Natural Seed Set Wounds  Defoliation Discolouration Northing Assess below Characteristics Assess below Discolouration Discolou | #Open #Sooty Root COO >2m COO >2m COO    Metres from badly cankered tree     < 40 |
| on edge of Ag. field: Pic 55-57.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Assessed June 6-12                                                                |
| Tree # Zone Easting Northing  4 0 1 7 6 7 2 6 3 6 4 8 7 2 7 0 6  Crown Class Grown % Main Stern Length(m)  Class Below crown Seed  Branch Dieback Branch Dieback Sterns Natural Planted Signs Natural Planted Seed Set  Defoliation Discolouration Discolouration Discolouration Sterns Natural Seed Set  Defoliation Discolouration Sterns Natural Seed Set  Defoliation Discolouration Seed Set  Defoliation Discolouration O 3 DBH(cm) Planted Seed Set  Unknown None  Assess below C #Epic-Live C #Epic-Dead Signs Seed Set Natural Seed Set Wounds                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | #Open #Sooty Root O O O O O O O O O O O O O O O O O O                             |
| Tromes night at the contract of the traction of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                   |

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Shaded fields are mandatory for Butternut Health Assessments Butternut Health Assessment. Surveyor ID Site Code(A,B,...Z, AA...) 5 Date (dd/mm/yyyy) or BHA# **Surveyor Last Name** Tree ID Numbering: 1,2,3,...Starting from 1 for each site **Easting** Northing Tree # Zone Metres from badly cankered tree Assess below live crown 7 5 ☐ < 40 ☐ > 40 점 None Found 7 Ч ما #Epic-Live #Open #Sooty **Competing Species** Main Stem Length(m) Crown #Epic-Dead Below crown Crown % Seed Root Class **Butternut** Signs

Male Flowers Bark Type ☐ Twig Dieback #Stems 0 0 Origin Branch Dieback Female Flowers Natural # Callused ☐ Seed Set Defoliation Planted **O** Wounds q DBH(cm) ☐ Discolouration Unknown 🔀 None presenting ROST ASSESSME DEAD ALONG TRUCK TREE FALLEN 06 Tree # Zone Northing Metres from badly cankered tree Assess below live crown ☐ < 40 ☐ > 40 ☑ None Found #Epic-Live #Open #Sooty Competing Species Main Stem Length(m) Crown #Epic-Dead ٥ 0 Crown % Below crown Seed Class Root ~ Butternut Signs ☐ Male Flowers ☐ Twig Dieback Bark Type #Stems ø Origin Branch Dieback ☐ Female Flowers Natural # Callused Defoliation ☐ Seed Set **O** Wounds >2m OS DBH(cm) ☐ Planted Discolouration Unknown M None **Easting Northing** Tree # Zone Metres from badly cankered tree Assess below live crown □ < 40 □ > 40 None Found #Epic-Live #Open #Sooty **Competing Species** Main Stem Length(m) Crown #Epic-Dead Crown % Below crown Seed Class Roof 0 **Butternut** ☐ Male Flowers Bark Type ☐ Twig Dieback #Stems Origin Branch Dieback ☐ Female Flowers Natural # Callused ☐ Seed Set Defoliation ○ Wounds >2m DBH(cm) ☐ Planted 0 0 Discolouration Unknown X None **Easting Northing** Tree # Zone Metres from badly cankered tree Assess below live crown □ < 40 □ > 40 ☑ None Found 8 #Epic-Live #Open #Sooty **Competing Species** Main Stem Length(m) Crown #Epic-Dead Below crown Crown % Seed Class ٥ Root **Butternut** Signs Male Flowers Bark Type ☐ Twig Dieback #Stems Origin ☐ Branch Dieback Female Flowers Natural # Callused Defoliation ☐ Seed Set >2n Planted Wounds DBH(cm) 0 ☐ Discolouration Unknown 🔽 None Tree # Zone Easting Northing Metres from badly cankered tree Assess below live crown ☐ < 40 ☐ > 40 ☑ None Found 8 6 5 #Epic-Live #Open #Sooty **Competing Species** Main Stem Length(m) 4 Class Crown #Epic-Dead Ó 0 12 Crown % Below crown Seed ۵ Root **Butternut** Signs Male Flowers Bark Type ☐ Twig Dieback 5 #Stems O Origin 23 ☐ Branch Dieback ☐ Female Flowers Natural # Callused ☐ Defoliation ☐ Seed Set **○**|Wounds ☐ Planted DBH(cm) ☐ Unknown ☒ None Discolouration

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(Contact Information follows all applicable privacy policies and guidelines)





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Fill when Form 1 indicates canker is well established. The information opn Form 2 must be filled out for all trees when doing a

Shaded fields are mandatory for Butternut Health Assessments Butternut Health Assessment. Surveyor ID Site Code(A,B,...Z, AA...) Date (dd/mm/yyyy) or BHA# **Surveyor Last Name** Tree ID Numbering: 1,2,3,...Starting from 1 for each site Northing Zone Easting Metres from badly cankered tree Assess below live crown 7 2 7 8 8 □ < 40 □ > 40 None u 6 #Epic-Live #Open #Sooty **Competing Species** Main Stem Length(m) Crown #Epic-Dead 2 Class Crown % Below crown 0 Seed Root Butternut Signs Male Flowers Bark Type ☐ Twig Dieback 3 #Stems Origin ☐ Branch Dieback ☐ Female Flowers ✓ Natural # Callused Defoliation ☐ Seed Set >2m ☐ Planted Wounds DBH(cm) 2 0 □ Discolouration ☐ Unknown ☑ None ORIGINALLY NWEG wow. CONSISTS OF THISE COMPETING C 57 **Easting** Zone Northing Metres from badly cankered tree Assess below live crown ☐ < 40 ☐ > 40 ☐ None Found #Epic-Live #Open #Sooty **Competing Species** Main Stem Length(m) Crown Live #Epic-Dead Crown % Below crown Seed Root Class **Butternut** Signs
Male Flowers ☐ Twig Dieback Bark Type #Stems =<2m Origin ☐ Branch Dieback ☐ Female Flowers Natural # Callused ☐ Defoliation ☐ Seed Set >2m ☐ Planted ☐ Unknow Wounds DBH(cm) ☐ Discolouration Unknown I None **Easting Northing** Tree # Zone Metres from badly cankered tree Assess below live crown ☐ < 40 ☐ > 40 ☐ None Found #Epic-Live #Open #Sooty **Competing Species** Live Main Stem Length(m) Crown #Epic-Dead Crown % Below crown Seed Root Class **Butternut** Signs
Male Flowers Bark Type ☐ Twig Dieback #Stems =<2m Origin Branch Dieback ☐ Female Flowers Natural # Callused Defoliation ☐ Seed Set >2m ☐ Planted Wounds DBH(cm) ☐ Discolouration ☐ Unknown ☐ None **Easting Northing** Tree # Zone Metres from badly cankered tree Assess below live crown ☐ < 40 ☐ > 40 ☐ None Found #Epic-Live #Open #Sooty **Competing Species** Main Stem Length(m) Crown #Epic-Dead Crown % Below crown Seed Class Root **Butternut** Signs

Male Flowers Bark Type ☐ Twig Dieback #Stems =<2m Origin Branch Dieback ☐ Female Flowers Natural # Callused Defoliation ☐ Seed Set >2m Planted Wounds DBH(cm) ☐ Discolouration ■ None Unknown Tree # Zone **Easting** Northing Metres from badly cankered tree Assess below live crown ☐ < 40 ☐ > 40 ☐ None Found #Epic-Live #Open #Sooty **Competing Species** Main Stem Length(m) Live Crown #Epic-Dead Crown % Below crown Seed Root Class **Butternut** Signs Male Flowers Bark Type ☐ Twig Dieback #Stems =<2m Origin ■ Branch Dieback ☐ Female Flowers Natural # Callused ☐ Seed Set ☐ Defoliation >2m ☐ Planted DBH(cm) Wounds ☐ Discolouration ☐ Unknown ☐ None

Please enter matching page link code on forms 1 and 2

O

Page Link

(Contact Information follows all applicable privacy policies and guidelines)





James Leslie, BHA #145 Stantec Consulting 70 Southgate Drive, Suite 1 Guelph ON N1G 4P5 519-836-6050

Paul Dalmazzi Hydro-One 483 Bay Street South Tower Toronto ON M5G 2P5

January 8, 2014

RE: 2013 Butternut health assessment, Corner of Winchester Road E and Concession Road 7, Clarington ON

Dear Paul Dalmazzi,

This letter is in regard to my re-assessment of the Butternut trees on your property. The original assessment was completed in 2012; this re-assessment was completed specifically for trees within or near the project footprint to accurately account for changes made under Ontario Regulation 242/08. Please read this letter carefully as it contains important information about the Endangered Species Act, 2007 (ESA).

Butternut is listed as an endangered species on the Species at Risk in Ontario List, and as such, it is protected under the ESA from being killed, harmed, or removed. If you are planning to undertake an activity that may affect Butternut, you may be eligible to follow the requirements set out in section 23.7 of Ontario Regulation 242/08 under the ESA, or you may need to seek an authorization under the ESA (e.g., a permit).

Please visit e-laws at the link provided below for the full legal requirements about activities eligible under section 23.7 of Ontario Regulation 242/08 and conditions that must be fulfilled. Information about butternut is also available at <a href="http://www.ontario.ca/environment-and-energy/butternut-trees-your-property">http://www.ontario.ca/environment-and-energy/butternut-trees-your-property</a>. If you are not eligible to follow this regulation, please contact the local Ministry of Natural Resources (MNR) to determine whether you will need to seek a permit. A link to the directory of MNR offices is

also provided below.

If you are eligible to follow the rules in regulation, your first step is to submit this BHA Report and the original data forms which are enclosed in this package (photocopies won't scan properly) to the local MNR District Manager. The BHA Report must be submitted at least 30 days prior to registering to kill, harm, or remove a Butternut tree. During this 30 day period, no Butternut trees (of any category) may be killed, harmed, or removed. During this time period, MNR may

#### Web-links:

Endangered Species Act, 2007

http://www.e-

laws.gov.on.ca/html/statutes/english/elaws\_statutes 07e06 e.htm

Ontario Regulation 242/08 (refer to section 23.7) http://www.e-

laws.gov.on.ca/html/regs/english/elaws regs 080 242 e.htm

Summary of changes related to Butternut <a href="http://www.ontario.ca/environment-and-energy/butternut-trees-your-property">http://www.ontario.ca/environment-and-energy/butternut-trees-your-property</a>

MNRoffice locations

http://www.mnr.gov.on.ca/en/ContactUs/2Column SubPage/STEL02 179002.html contact you for an opportunity to examine the trees that were assessed.

If MNR elects to audit the health assessment, a representative of the MNR will contact you using the information you supplied when you submitted the BHA Report. Following any audit, MNR will advise if there are any problems with the BHA that impact your eligibility for the regulation.

If you are eligible to follow section 23.7 of Ontario Regulation 242/08 and MNR does <u>not</u> contact you regarding an audit during the 30 day period, you may register your activity using the "Notice of Butternut Impact" form on the MNR Registry (link provided) and then proceed with your activity.

The designated Butternut Health Assessor has provided the following assessment of the Butternut trees located and assessed at the above noted property during the site visit on October 8, 2013. Please be advised that Butternut trees other than those identified in this BHA Report must also be assessed by a BHA if a proposed activity may cause them to be killed, harmed or removed.

Please retain this letter and the following BHA Report for your records, along with any other documentation you may receive from the MNR should an audit of the assessment occur.

If you have any questions, please do not hesitate to contact me or the Species at Risk Biologist in the local MNR district office.

Sincerely,

James Leslie

### Enclosures:

- 1. BHA Report
- 2. Original data forms
- 3. Electronic and printed copies of the Excel data analysis spreadsheet

### **Explanation of Butternut Categories.**

**Category 1:** Butternut assessed as Category 1 (also referred to as "non-retainable") are affected by butternut canker to such an advanced degree that retaining the tree would not support the protection or recovery of butternut trees in the area in which the tree is located.

**Category 2:** Butternut assessed as Category 2 (also referred to as "retainable") are not affected by butternut canker of the degree to which it is affected by butternut is not too advanced and retaining the tree could support the protection and recovery of butternut trees in the area the tree is located.

**Category 3:** Butternut assessed as Category 3 (also referred to as "archivable" or "putatively resistant") are trees that may be useful in determining resistance to butternut canker. Please note, that these trees are not eligible under section 23.7 of Ontario Regulation 242/08.

Hybrids: Trees assessed as hybrid Butternut trees are not protected under the ESA.

Note: Municipal by-laws and other legislation may be applicable.

## **Butternut Health Assessment Report**

James Leslie, BHA #145 Stantec Consulting 70 Southgate Drive, Suite 1 Guelph ON N1G 4P5 519-836-6050

Paul Dalmazzi Hydro-One 483 Bay Street South Tower Toronto ON M5G 2P5

RE: 2013 Butternut health assessment, Corner of Winchester Road E and Concession Road 7, Clarington ON

Date of assessment: October 8, 2013

Total number of trees assessed:12

Stantec Consulting Ltd. was retained by Hydro One Networks Inc. (Hydro One) to complete a Natural Heritage Existing Conditions report to support the preparation of a Class EA for the construction of a 500-230 kV auto-transformer Station in the Municipality of Clarington. During site investigations, 46 butternut trees were identified and assessed by a certified Butternut Health Assessor. The original assessment was completed in 2012; this re-assessment was completed specifically for trees within or near the project footprint to accurately account for changes made under Ontario Regulation 242/08.

All butternut trees within the Study Area were numbered on site in 2012 using white paint. The select trees that were re-assessed in 2013 had new numbers assigned to them due to the nature of the data collection forms. These new numbers were only applied to the data collection forms; the trees were not physically re-numbered with white paint. The corresponding numbering system is outlined in the Tables below.

Changes from the 2012 survey are as follows (based on the 2012 numbering system):

- Tree #1, previously categorized as retainable, was genetically tested and determined to be a hybrid (initiative undertaken by Hydro One)
- Tree #16, previously categorized as retainable, was re-assessed as category 1
- Tree #21, previously categorized as retainable, was re-assessed as category 1
- Tree #23, previously categorized as retainable, was re-assessed as a hybrid
- Tree #24, previously categorized as retainable, was re-assessed as category 1

**Category 1** trees do not meet the retention criteria in the Butternut Assessment Guidelines based on crown vigour and the degree of cankers on the root flare and/or stem. The following trees can be killed, harmed or removed after the 30 day period that follows submission of this BHA Report to the MNR District Manager without any additional requirements under the ESA but their removal may be subject to municipal by-laws and other legislation.

Please note: The Ontario Recovery Team encourages that all Butternut trees be conserved, whether they meet the retention criteria or not. Removal of cankered trees is not an objective of the Recovery Strategy for Butternut.

| The following tree(s) have been assessed as Category 1: (non-retainable) |    |   |                     |  |  |  |  |
|--------------------------------------------------------------------------|----|---|---------------------|--|--|--|--|
| Category 2012 Tree Number 2013 Tree UTM Coordinates                      |    |   |                     |  |  |  |  |
| 1                                                                        | 16 | 3 | 17, 672774, 4872684 |  |  |  |  |
| 1                                                                        | 21 | 4 | 17, 672661, 4872624 |  |  |  |  |
| 1                                                                        | 24 | 6 | 17, 672659, 4872601 |  |  |  |  |
| Total number of Category 1 trees: 3                                      |    |   |                     |  |  |  |  |

**Category 2** trees satisfy the retention criteria in the Butternut Assessment Guidelines. Activities that may affect up to ten (10) Category 2 trees may be eligible under section 23.7 of Ontario Regulation 242/08 in accordance with the conditions set out in the Regulation.

| The following tree(s) have been assessed as Category 2: (retainable) |                     |                     |                                   |   |  |  |
|----------------------------------------------------------------------|---------------------|---------------------|-----------------------------------|---|--|--|
| Category                                                             | 2012 Tree<br>Number | 2013 Tree<br>Number | UTM Coordinates                   |   |  |  |
| 2                                                                    | 10                  | 2                   | 17, 672658, 4872649               |   |  |  |
| 2                                                                    | 22                  | 5                   | 17, 672657, 4872616               |   |  |  |
| 2                                                                    | 28                  | 7                   | 17, 672664, 4872572               |   |  |  |
| 2                                                                    | 29                  | 8                   | 17, 672668, 4872566               |   |  |  |
| 2                                                                    | 33                  | 9                   | 17, 672692, 4872642               |   |  |  |
| 2                                                                    | 34                  | 10                  | 17, 672681, 4872565               |   |  |  |
| 2                                                                    | 36                  | 11                  | 17, 672681, 4872560               |   |  |  |
| 2                                                                    | 46                  | 12                  | 17, 672780, 4872692               |   |  |  |
|                                                                      |                     |                     | Total number of Category 2 trees: | 8 |  |  |

**Category 3** trees are not eligible to be killed, harmed or removed under section 23.7 Ontario Regulation 242/08. MNR should be contacted for an application for an authorization issued under the ESA.

| The following tree(s) have been assessed as Category 3: (achievable) |                     |                     |                                   |   |  |  |  |
|----------------------------------------------------------------------|---------------------|---------------------|-----------------------------------|---|--|--|--|
| Category                                                             | 2012 Tree<br>Number | 2013 Tree<br>Number | UTM Coordinates                   |   |  |  |  |
| 3                                                                    | 4                   | 1                   | 17, 672762, 4872683               |   |  |  |  |
|                                                                      |                     |                     | Total number of Category 3 trees: | 1 |  |  |  |

**Hybrid** Butternut trees are not protected under the ESA, but their removal may be subject to municipal by-laws and other legislation.

| The following tree(s) have been assessed as hybrid trees: |                     |                               |   |  |  |  |
|-----------------------------------------------------------|---------------------|-------------------------------|---|--|--|--|
|                                                           | 2012 Tree<br>Number | UTM Coordinates               |   |  |  |  |
| Hybrid                                                    | 23                  | 17, 672660, 4872603           |   |  |  |  |
|                                                           |                     | Total number of hybrid trees: | 1 |  |  |  |

We understand that Hydro One has taken considerable measures to avoid the Butternut trees at the site, and most recently, Hydro One has been able to minimize the removal and impact to trees 2, 3, 5, 9, 46, and potentially 34, 35, and 36 (based on 2012 tree numbering). Based on the information provided by Hydro One no other trees will be affected by proposed Clarington Transformer development.

Please note that Hydro One will be completing the online registration of Butternut following the 30 day review period as per Section 23(4) 4 of the Regulation.

\_\_\_\_\_

NOTE: This concludes summary of the BHA Report. A complete BHA Report must include the original (hard copy) data forms (all completed sets of Form 1 and Form 2), an electronic copy of the Excel data analysis spreadsheet, plus one printed copy of the spreadsheet.

|            |             |      |               |              |                |               | Contact the   |              |              |         | ut retainab<br>detailed expla |                      | •                  | e 2009/2013).  |             |                          |                             |                     |                                                |                |                           |                 |  |              |  |  |  |          |               |
|------------|-------------|------|---------------|--------------|----------------|---------------|---------------|--------------|--------------|---------|-------------------------------|----------------------|--------------------|----------------|-------------|--------------------------|-----------------------------|---------------------|------------------------------------------------|----------------|---------------------------|-----------------|--|--------------|--|--|--|----------|---------------|
| BHA#       |             |      | 14            | 45           | Assessm        | ent Date(s)   |               |              |              |         |                               | 8-Oct-13             | ,,,,               |                |             | Total # tre              | ees                         |                     |                                                | 12             |                           |                 |  |              |  |  |  |          |               |
| andowne    | r name      |      |               |              |                |               |               |              |              |         |                               | H                    | ydro One li        | nc.            |             |                          |                             |                     |                                                |                |                           |                 |  |              |  |  |  |          |               |
| Property L | ocation     |      |               |              |                |               |               |              |              | Corner  | of Winches                    | ter Road E           | and Conc           | ession Roa     | d 7, Clarin | gton, ON                 |                             |                     |                                                |                |                           |                 |  |              |  |  |  |          |               |
|            |             |      |               | input fi     | eld data       |               |               |              |              |         |                               | automa               | tic calculat       | ions from f    | ield data   |                          |                             |                     | Categories                                     |                |                           |                 |  |              |  |  |  |          |               |
|            |             | % uw |               |              | # bole         | cankers       |               |              | E zi         |         |                               | total bole<br>canker | total RF<br>canker | bala asakar    | RF canker % | total bole & root canker |                             | 2                   | on retainable<br>=retainable (<br>= Archivable | R),            |                           |                 |  |              |  |  |  |          |               |
|            |             | 0    | tree dbh (cm) |              | (will be       | open (O)      | (will be      | # root flare | (RF) cankers | ere ere | Circ. (cm) =<br>Pi x dbh      | width (sooty         |                    | % of circ.     | of circ.    | %                        |                             | '2'                 | cases                                          |                | '3' cases                 |                 |  |              |  |  |  |          |               |
| 013 Tree # | 2012 Tree # | Live |               | assigned 2.5 | cm per canker) | assigned 5 cr | n per canker) |              |              | san 4   |                               | x 2.5 + open x<br>5) |                    | x 2.5 + open x |             | x 2.5 + open x           |                             | x 2.5 + open x      |                                                | x 2.5 + open x |                           | x 2.5 + openx5) |  | of<br>2xCirc |  |  |  | ea<br>ea | FINAL<br>TREE |
|            |             | LC % | dbh (cm)      | S <2 m       | S >2m          | O <2m         | O >2m         | RF S         | RF O         | y or n  | Circ<br>(cm)                  | BC (cm)              | RC (cm)            | BC%            | RC%         | BRC%                     | LC%>/= 50<br>and BC% =<br>0 | LC%>70 &<br>BRC%<20 | LC%>70 &<br>BC%< 20                            | Final R Tree   | R,<br>dbh>20d<br><40m fro |                 |  |              |  |  |  |          |               |
| 1          | 4           | 95   | 30            | 0            | 0              | 0             | 0             | 1            | (            | у       | 94.2                          | 0                    | 2.5                | 0              | 3           | 1                        | 2                           | 2                   | 2                                              | 2              | 3                         |                 |  |              |  |  |  |          |               |
| 2          | 10          | 100  | 7             | 0            | 0              | 0             | 0             | 0            | C            | n       | 21.98                         |                      | 0                  | 0              | 0           | 0                        | -                           | 2                   | 2                                              | 2              | 2                         |                 |  |              |  |  |  |          |               |
| 3          | 16          | 100  | 11            | 3            | 0              | 0             | 0             | 3            | C            | у       | 34.54                         | 7.5                  | 7.5                | 22             | 22          | 22                       | 1                           | 1                   | 1                                              | 1              | 1                         |                 |  |              |  |  |  |          |               |
| 4          | 21          | 25   |               | 0            | 0              | 0             | 0             | 0            | C            | n       | 3.14                          |                      | 0                  |                | 0           | 0                        |                             | 1                   | 1                                              | 1              | 1                         |                 |  |              |  |  |  |          |               |
| 5          | 22          | 95   |               | 3            | 1              | 0             | 0             | 3            | C            | n       | 150.72                        |                      |                    |                | 5           | 6                        |                             | 2                   | 2                                              | 2              | 2                         |                 |  |              |  |  |  |          |               |
| 6          | 24          | 95   |               | 1            | 1              | 1             | 0             | 4            |              | n       | 21.98                         |                      | 10                 | 45             | 45          |                          |                             | 1                   | 1                                              | 1              | 1                         |                 |  |              |  |  |  |          |               |
| 7          | 28          | 100  |               | 0            | 0              | 0             | 0             | 0            |              | у       | 28.26                         |                      | 0                  | 0              | 0           | 0                        |                             | 2                   | 2                                              | 2              | 2                         |                 |  |              |  |  |  |          |               |
| 8          | 29          | 100  |               | 1            | 0              | 0             | 0             | 0            |              | у       | 21.98                         |                      |                    | 11             | 0           |                          |                             | 2                   | 2                                              | 2              | 2                         |                 |  |              |  |  |  |          |               |
| 10         | 33<br>34    | 95   |               | 3            | 1              | 0             | 0             | 0            |              | n       | 25.12<br>59.66                |                      | 2.5                | 40             | 0           | 20                       |                             | 2                   | 1                                              | 2              | 2                         |                 |  |              |  |  |  |          |               |
| 10         | 34          | 100  |               |              | 0              | 0             | 0             | 1            |              | у       | 59.66                         |                      | 2.5                |                | 4           |                          | 2                           | 2                   | 2                                              | 2              | 2                         |                 |  |              |  |  |  |          |               |
| 11         |             | 100  |               | 0            | 0              | 0             | 0             | 1            |              | y<br>V  | 9,42                          |                      | 2.5                |                | 5           |                          | 2                           | 2                   | 2                                              | 2              | 2                         |                 |  |              |  |  |  |          |               |

(PLEASE USE

BLOCK LETTERS)

Fill when Form 1 indicates canker is well established. The information opn Form 2 must be filled out for all trees when doing a

| Shaded fields are mandatory for Butternut Health Assessments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | must be filled out for all trees when doing a Butternut Health Assessment. |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| Site Code(A,B,Z, AA)  Surveyor ID or BHA #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Date (dd/mm/yyyy)                                                          |
| Surveyor Last Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 08-16-2013                                                                 |
| Tree ID Numbering: 1,2,3,Starting from 1 for each site Tree # Zone Easting Northing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Metres from badly cankered tree                                            |
| 001176727624872683 Assess below                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | □ < 40 □ > 40 □ None                                                       |
| Crown Class O 9 5 Live Main Stem Length(m) Class O 9 5 Crown % Delow crown Seed #Epic-Dead                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Root O O O O O O O O O O O O O O O O O O                                   |
| ☐ Twig Dieback                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | =<2m 0 0 0 0 A C E S A 3 A                                                 |
| ☐ Defoliation ☐ Discolouration ☐ Discol | >2mopood VITRIPA                                                           |
| MARKED A MY" ; PIC HZ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                            |
| Tree # Zone Easting Northing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Metres from badly cankered tree                                            |
| 002176726584872649 Assess below                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | □ < 40 □ > 40 □ None Found                                                 |
| Crown Class Crown % Seed #Epic-Dead                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Root Competing Species                                                     |
| Twig Dieback  #Stems  Butternut Origin Male Flowers Bark Type  Branch Dieback    Branch Dieback                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | =<2mooo TILAMER                                                            |
| ☐ Branch Dieback ☐ Natural ☐ Female Flowers ☐ Defoliation ☐ Planted ☐ Planted ☐ Unknown ☐ None ☐ Wounds                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | >2m0000                                                                    |
| THEIGHT ~ YM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                            |
| Tree # Zone Easting Northing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Metres from badly cankered tree                                            |
| Assess below #Epic-Live                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | #Open #Sooty   Competing Species                                           |
| Crown Class Crown % Seed Signs Stem Length(m) Seed #Epic-Dead                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Root a a b S & L I X                                                       |
| Twig Dieback #Stems Butternut Origin Male Flowers Bark Type  Branch Dieback #Stems Butternut Origin Female Flowers #Callused                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | =<2m 0 0 0 3                                                               |
| ☐ Defoliation ☐ Discolouration ☐ Discol | >2m0009                                                                    |
| - white of 1,10,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                            |
| Tree # Zone Easting Northing Assess below                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Metres from badly cankered tree                                            |
| Crown Live Main Stem Length(m) #Epic-Live                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | #Open #Sooty Competing Species                                             |
| Class Crown % Delow crown Seed Butternut Signs Bark Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Root a a a b 5 4 GC LV &                                                   |
| Branch Dieback Natural Female Flowers # Callused                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | =<2m O o o o                                                               |
| ☐ Discolouration ☐ ☐ Unknown ☑ None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | >2m 0 0 0 0                                                                |
| MATTER #5 "ZI"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                            |
| Tree # Zone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Metres from badly cankered tree    Value crown                             |
| Crown Live Main Stem Length(m) #Epic Dood                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | #Open #Sooty Competing Species                                             |
| Class O 9 5 Crown % O 2 Below crown Seed  Butternut Signs  Origin Male Flowers  Seed  Butternut O Male Flowers  Signs  Origin Male Flowers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Root 0 0 0 3 5 A L 1 Y                                                     |
| Branch Dieback Natural Female Flowers # Callused                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | >2m0001 504 C & N & C V                                                    |
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| Please enter matching page link code on forms 1 and 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                            |

Page Link (Contact Information follows all applicable privacy policies and guidelines)





(PLEASE USE

**BLOCK LETTERS**) Shaded fields are mandatory for Butternut Health Assessments

Fill when Form 1 indicates canker is well established. The information opn Form 2 must be filled out for all trees when doing a

| Surveyor Last Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| Twig Dieback   #Stems   Butterrut   Male Howers   Male H   | O 0 7 1 7 6 7 2 6 6 4 4 8 7 2 5 7 2  Assess below #Epic-Live  #Epic-Live  #Epic-Live  #Epic-Live                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ✓ (Ive crown                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Tree # Zone Easting Northing   Assess below live crown   Assess below  | Twig Dieback #Stems Butternut Origin Natural Female Flowers Defoliation Planted Signs Male Flowers Female Flowers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | = 2m do do PHACATH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| Assess below live crown    Crown   Class   Crown %   Crown %   Crown %   Class   Crown %   Crown %   Class   Crown %   Class   Crown %   Crown %   Crown %   Crown %   Class   Crown %   Crown | Crown Class                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | #Open #Sooty Root A A A EL  =<2m A A A EL    A |
| 41~\nu\nu\nu\nu\nu\nu\nu\nu\nu\nu\nu\nu\nu\                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Assess below  Crown Class Crown Crow | #Open #Sooty Root Competing Species  -<2m Competing Species                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Please enter matching page link code on forms 1 and 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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(Contact Information follows all applicable privacy policies and guidelines)





(PLEASE USE BLOCK LETTERS)

Fill when Form 1 indicates canker is well established. The information opn Form 2

| Stidded fields are mandatory for butternut nearth Assessments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Butternut Health Assessment.     |
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| Site Code(A,B,Z, AA)  Surveyor ID or BHA #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Date (dd/mm/yyyy)                |
| Surveyor Last Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 08-10-2013                       |
| Tree ID Numbering: 1,2,3,Starting from 1 for each site Tree # Zone Easting Northing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                  |
| Assess below #Epic-Live                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ∐ < 40 ∐ > 40 ∐ Found            |
| Crown Class Crown % Main Stem Length(m)  Class Felow crown Seed #Epic-Dead                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Root Competing Species           |
| ☐ Twig Dieback #Stems Butternut Origin Male Flowers Bark Type  Branch Dieback #Stems Origin Female Flowers  Butternut Signs Male Flowers  Branch Dieback Flowers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | =<2moooo SUGCIME                 |
| ☐ Defoliation ☐ DBH(cm) ☐ Planted ☐ Seed Set ☐ Unknown ☐ Unknown ☐ Discolouration ☐ Discolouration ☐ Discolouration ☐ Discolouration ☐ Unknown ☐ Discolouration ☐ Discolouratio | >2m                              |
| traffer as "36"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                  |
| Tree # Zone Easting Northing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Metres from badly cankered tree  |
| 4872804872692 Assess below #Epic-Live                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ☐ < 40 ☐ > 40 ☐ Found            |
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| ☐ Defoliation ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | >2m 0 0 0                        |
| MARKED AS "HE" - ALL 3 STEMS SHOW VIGOT, BUT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | AL DAMARS FROM DOCK              |
| Tree # Zone Easting Northing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Metres from badly cankered free  |
| Assess below #Epic-Live                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | live crown                       |
| Crown Class Crown % Below crown Seed #Epic-Dead                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Root Competing Species           |
| ☐ Twig Dieback                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | =<2m                             |
| □ Defoliation □ DBH(cm) □ Natural □ Female Flowers # Callused Wounds □ Discolouration □ Unknown □ None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | >2m                              |
| Olikiowi Li isi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                  |
| Tree # Zone Easting Northing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Metres from badly cankered tree  |
| Assess below #Epic-Live                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | □ < 40 □ > 40 □ None Found       |
| Crown Class Crown % Below crown Seed #Epic-Dead                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | #Open #Sooty   Competing Species |
| I I Dialicii Dieback                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | =<2m                             |
| □ Defoliation □ DBH(cm) □ Natural □ Female Flowers □ # Callused □ Discolouration □ Unknown □ None □ Wounds                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | >2m                              |
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| Tree # Zone Easting Northing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Metres from badly cankered tree  |
| 1 Assess below #Epic-Live                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | IIve crown                       |
| Crown Class Live Main Stem Length(m) Class Crown % Below crown Seed #Epic-Dead                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | #Open #Sooty Competing Species   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | =<2m                             |
| Defoliation DBH(cm) Planted Seed Set Wounds                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | >2m                              |
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| Please enter matching page link code on forms 1 and 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                  |

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