

## Memo

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To: Andrew Taylor

From: Cheryl-Anne Payette  
Guelph

File: 16096709

Date: January 6, 2012

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**Reference: Fall Botanical, Ecological Land Classification and roadside  
Ecological Land Classification  
Suncor Cedar Point Wind Project**

This memo has been prepared to provide a summary of the field investigations conducted from November 14 to 23 2011 and December 15 to 16 2011, in the Cedar Point Wind Project study area, in Lambton county near Forest, Ontario. These investigations were undertaken by Cheryl-Anne Payette, Nicole Charlton and Natalie Leava.

Field investigations for this project were conducted to confirm and assess the character of existing conditions. The work included Ecological Land Classification (ELC) of vegetation communities, documentation of wildlife (or evidence of) and identification of potentially significant natural heritage features. Vegetation communities were delineated on aerial photographs and confirmed in the field; community characterizations were then based on the ELC system (Lee et al., 1998). English colloquial names and scientific binomials of plant species generally follow Newmaster et al. (1998).

Natural heritage information collected from the subject lands was evaluated to confirm potential significance of natural areas and species. The provincial status of all plant species is based on Newmaster et. al (1998), with updates from the NHIC (2011). Identification of potentially sensitive plant species is based on assignment of a coefficient of conservatism value (CC) to each native species in southern Ontario (Oldham et al., 1995). The value of CC, ranging from 0 (low) to 10 (high), is based on a species' tolerance of disturbance and fidelity to a specific natural habitat. Species with a CC value of 9 or 10 generally exhibit a high degree of fidelity to a narrow range of habitat parameters.

Incidental wildlife observations were made during the survey, and hedgerows were scanned in order to search for rare species such as butternut (*Juglans cinerea*) and Eastern Flowering dogwood (*Cornus florida*).

### **Vegetation Communities**

The vegetation communities, based on the ELC system for Southern Ontario, are shown in **figures 1-44**.

This study area consisted primarily of active agricultural land, Wetland communities and deciduous forest communities. The majority of communities assessed within this One Team. Infinite Solutions.

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survey were completed on site, with the exception of roadside surveys as indicated for those properties with no landowner access.

The vegetation community types are succinctly described in **Table 1** below.

<b>Table 2 Ecological Land Classification (ELC) Vegetation Types</b>	
<b>ELC TYPE</b>	<b>Community Description</b>
<b>Forest (FO)</b>	
<b>Deciduous Forest (FOD)</b>	
FOD2-4(tile 44) Dry-Fresh Oak-Hardwood Deciduous Forest	This community is dominated by red oak and American elm with some white ash and sugar maple. The sub-canopy is comprised of American elm and white ash with an understory of hawthorn, dogwood and sugar maple. Goldenrod and aster are the dominant species in the ground layer. This community borders a riparian area and is found on a steep slope leading up to agriculture.
FOD3-1 (tile 24) Dry- Fresh Poplar Deciduous Forest	This woodland is successional in nature with managed agriculture on three sides and a road on the other. The community is growing on a slope and is culturally influenced. The canopy includes balsam poplar, ash and trembling aspen, with sugar maple in equivalent numbers. Hawthorne and red raspberry are in the understory and groundcover is dominated by grasses and goldenrods.
FOD4-1(tile 44) Dry-Fresh Beech Deciduous Forest	This community, which runs alongside a small stream, is dominated by American beech with some American elm and black walnut also present. The sub-canopy is comprised of American beech with white elm. The Understory cover includes hawthorn, white elm and black raspberry, with a ground cover composition including garlic mustard, goldenrod and clover.
FOD 4-4*(tile 44) Dry-Fresh American Elm-White Ash Deciduous Forest	American elm dominates this community with white ash, black walnut and large toothed aspen also present. The sub-canopy has a similar composition with some red oak and sugar maple also present. The understory is quite full with red raspberry, hawthorn and rose species. The ground layer was also full, with goldenrods, asters and garlic mustard.
FOD5-2(tile 18) Dry-Fresh Sugar Maple-Beech Deciduous forest	Sugar Maple dominates this community in both the canopy and understory; American Beech is also prevalent in this community. This forest is managed as evidence of logging activity is found throughout, including an ATV trail system, stumps and logs. The ground layer contained a number of open species including grasses and goldenrod as the canopy has openings in a number of areas from logging activity.
FOD5-2(tile 40) Dry-Fresh Sugar Maple-Beech Deciduous Forest	This community is dominated by American beech and sugar maple in similar proportions; red oak and ash are also predominant in the canopy. The understory is dominated by sugar maple and American beech with some blue beech. Ground cover consists of zigzag goldenrod and wild strawberry.
FOD5-3(tile 25) Dry- Fresh Sugar Maple-Oak Deciduous Forest	Sugar maple with bur oak and red oak are the dominant species in this community, which is found on a slope at the south end of the agricultural field. The understory is dominated by young sugar maple as well as black cherry, with a ground layer of wild strawberry and garlic mustard.
FOD5-6(tile 22) Dry-Fresh Sugar Maple-Basswood Deciduous Forest	This community is found on a steep slope on the field side of the woodlot south east of oil heritage rd. and Douglas line. The canopy is dominated by sugar maple and basswood with black cherry and ash sp. The sub canopy and understory are sparsely vegetated with sugar maple and ironwood in the sub canopy and black cherry in the understory. The ground layer is dominated by species of goldenrod, avens and running strawberry bush.



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FOD5-6(tile 27) Dry-Fresh Sugar Maple-Basswood Deciduous Forest	This community is dominated by sugar maple, white oak and basswood in the canopy. Sugar maple also dominates the sub-canopy with equal proportions of basswood, ironwood and American beech. The understory is dominated with sugar maple and some black cherry, with sedges, paniced aster and goldenrod in the ground cover.
FOD6(tile 32) Fresh-Moist Sugar Maple Deciduous forest Ecosite	This community is found far back from road edge and due to lack of property access a community vegetation type was not possible to determine. Species observed include shagbark hickory, sugar maple and ash, as well as American beech in the understory.
FOD6-1(tile 8) Fresh-Moist Sugar Maple-Lowland Ash Deciduous Forest	This community runs to the north of the decommissioned rail line. It was assessed from the southern property boundary as access was not available to the adjacent property. The canopy is variable including numerous species with ash and maple dominating. Other species included white elm and red maple. The understory is quite thicketed with hawthorn, buckthorn and gray dogwood.
FOD6-1 (tile 22) Fresh-Moist Sugar Maple-Lowland Ash Deciduous Forest with SWD2-2 complex	This community is found on the west side of Oil Heritage rd. with a drainage canal running through its center. It is dominated by sugar maple and ash in equal proportions, with bitternut hickory and basswood also in the canopy. The sub-canopy is dominated by sugar maple, ironwood and ash, and the understory is composed of sugar maple, ironwood and black cherry. Goldenrod spp., running strawberry and avens spp. are found in the ground layer.
FOD6-1(tile 34) Fresh-Moist Sugar Maple-Lowland Ash Deciduous Forest	This actively logged community is dominated by sugar maple and ash with red oak and American beech in the canopy. The dominant understory vegetation includes buckthorn, bitternut hickory and black cherry, with the ground layer dominated by garlic mustard, wild strawberry and sedge species. The community is found to the south of the drainage creek adjacent to the field.
FOD6-2(tile 22) Fresh-Moist Sugar Maple-Black Maple Deciduous Forest with SWD2-2 and FOD8-1 inclusions	This vulnerable community type is found to the east of Oil Heritage rd. along a slope area and lowland associated with the creek. It is dominated by black maple and sugar maple in equal proportions, with basswood and ash also present in the canopy. Maple species are also dominant in the sub-canopy with some ash and ironwood. The understory included black cherry, raspberry and buckthorn and the ground layer was dominated by running strawberry bush, Pennsylvania sedge and goldenrod species. Two inclusions were identified in this community found in the bottomland portion of the community.
FOD6-5(tile 1) Fresh-Moist Sugar Maple-Hardwood Deciduous Forest	This community is variable in nature with numerous pools of standing water interspersed with hilled hummock areas. The canopy was comprised of sugar maple and shagbark hickory, with some Freeman's maple and green ash. The understory was very full and almost entirely dominated by spice bush with the occasional blue beech. Ground cover vegetation is sparse with only the occasional sedge, some strawberry and occasional to rare ferns.
FOD6-5(tile 9) Fresh-Moist Sugar Maple-Hardwood Deciduous Forest with MAM2-10 inclusion	This community found on the north side of cedar point line along the proposed hydro line is dominated by sugar maple, bur oak and shagbark hickory in the canopy. The understory is very sparse with some red raspberry, nannyberry, currant and buckthorn and the ground layer consisted of strawberry, twinflower and garlic mustard. A small opening in the canopy allowed for a small inclusion of forb meadow marsh in a small wet pocket within the wooded area.
FOD6-5(tile 9) Fresh-Moist Sugar Maple-Hardwood Deciduous Forest	This community is found to the South of cedar point road and is similar in composition to the community described above. The canopy is dominated by sugar maple, shagbark hickory and red oak, the understory is very sparse with only rarely occuring rose species, and the ground layer is also sparse with

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	some sedges, herb Robert and strawberry.
FOD6-5(tile 19) Fresh-Moist Sugar Maple-Hardwood Deciduous Forest with SWD2-2 inclusion	This maple dominant forest is found in the south west end of tile 19, and is actively being harvested for maple syrup production as evidenced by equipment running through the woodlot. Other species in the community were of equal proportions, including shagbark hickory, red oak and ash. A small inclusion was present in a lower area of the woods which included a number of freeman maple and green ash. The groundcover in this community included wild strawberry, enchanter's nightshade, zigzag goldenrod and Christmas fern.
FOD6-5(tile 27) Fresh-Moist Sugar Maple-hardwood Deciduous Forest with FOD9-3 complex and SWD2-2 complex	This community is very mixed with two separate complexes found due to the varied nature of the terrain. As a result the dominant community was difficult to ascertain. The canopy is dominated by sugar maple, basswood, green ash and bur oak, with sugar maple and American beech dominating the sub-canopy and understory. Ground cover consists of avens, goldenrod and garlic mustard. This community is also culturally disturbed with evidence of recent logging activity.
FOD6-5(Tile 27) Fresh-Moist Sugar Maple-Hardwood Deciduous Forest	Sugar maple dominates the canopy in this community with basswood and some black maple. The sub-canopy and understory are also dominated by sugar maple with ironwood, hawthorn and cherry. Running strawberry bush was the dominant groundcover with garlic mustard and Pennsylvania sedge. This community is confined by a slope to the north and south edges and contains a number of drainage ditches and artificial waterways running into the area.
FOD6-5(tile 27) Fresh-Moist Sugar maple-Hardwood Deciduous Forest	This young community is dominated by sugar maple and basswood with an understory of hawthorn and buckthorn. Avens, goldenrods and sedges dominate the groundcover. The community transitions to a more mature forest outside of the buffer.
FOD6-5(tile 29) Fresh-Moist Sugar Maple-Hardwood Deciduous forest with SWD2-2 complex	This large contiguous forest is very species rich with Sugar maple, Bur oak and ash dominating the canopy. The sub-canopy included sugar maple, yellow birch and white elm and the understory is dominated by spicebush, red raspberry and winterberry. Green ash mineral swamp is found in pockets throughout the community with standing water and wetland plant species richness including reed canary grass and sedges. The ground cover is very fern rich with Christmas fern found throughout and sedges and wild strawberry dominating. This community has some evidence of disturbance with trails and log piles found throughout, as well as waste areas close to agricultural field edges.
FOD6-5(tile 39) Fresh-Moist Sugar Maple-Hardwood Deciduous forest	This community is found in a small woodlot at the corner of McFarlane rd. and highway 402. It has been heavily deer browsed with many small saplings in the understory, stumps are indicative of logging activity in the past. The canopy is dominated by a mix of sugar maple and various other hardwood species including, bur oak, red oak and Freeman's maple, the understory has sugar maple, as well as white elm, black cherry and American beech. The understory is heavily populated with young sugar maple and American beech saplings, many of which have been browsed by white-tailed deer. The ground layer was sparse with herb Robert and yellow enchanters nightshade dominating.
FOD6-5(tile 39) Fresh-Moist Sugar Maple-Hardwood Deciduous Forest	This community is found to the West of McFarlane rd., it is dominated by Sugar maple and red oak, with American beech and ash. The sub-canopy includes Ironwood, sugar maple, black cherry and blue beech, with a heavily vegetated understory of sugar maple saplings, red raspberry and buckthorn. Groundcover includes wild strawberry, goldenrod and fern species.
FOD6-5(tile 40)	Red oak and sugar maple dominate this community with Freeman's maple and

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Fresh-Moist Sugar Maple-Hardwood Deciduous	ash also in high proportions. The understory is dominated by American beech, white elm and ironwood, with a ground layer of zigzag goldenrod, wild strawberry and goldenrod spp. Some evidence of maintenance and possibly logging is evident, as well as a large amount of waste throughout the woodlot.
FOD6-5(tile 41) Fresh-Moist Sugar Maple-Hardwood Deciduous Forest with SWD2-2 complex	Sugar maple and American beech dominate the canopy of this community, found to the South of Michigan line, along with equal proportions of red oak and bur oak. The sub-canopy is dominated by young American beech, ironwood and black cherry with red raspberry, buckthorn and hawthorn in the understory. The ground layer is dominated by herb Robert, wild strawberry and sedges. This community is complexed with Green ash mineral swamp, which is found in low lying areas within the community with some standing water and is dominated by green ash with sedges and goldenrod in the ground layer.
FOD6-5(tile 41) Fresh-Moist Sugar Maple Hardwood Deciduous Forest	This small woodlot is found along the watercourse to the north of the large woodlot and is much more treed than the rest of the drainage area community. The canopy is dominated by red oak and white elm with sugar maple and shagbark hickory. The understory is quite thicketed with rose spp., hawthorn, honeysuckle and buckthorn. The ground layer is also quite different as compared to the rest of the drainage with higher proportions of aster spp., and goldenrod spp. than reed canary grass. There is also a log dam across the watercourse/drainage in this area.
FOD6-5(tile 41) Fresh-Moist Sugar Maple-Hardwood Deciduous Forest with SWD2-2 complex	This community is dominated by sugar maple, red oak, bur oak and ash sp. In the canopy; With many low wet areas dominated by green ash. The sub-canopy was dominated by American Beech, Sugar maple and white elm with an understory of red raspberry, spicebush and blackberry. The ground layer was relatively sparse with zigzag goldenrod, sedges and wild strawberry dominating. Some evidence of disturbance was found within the forest community, including many brush piles and old stumps.
FOD7-1 (tile 32) Fresh-Moist White Elm Lowland Deciduous Forest	This community was described from the roadside as property access was not available. It is dominated by white elm and ash with some bur oak and appears to be heavily managed with log piles and trails within. Many of the elm trees appear to be dead or dying and poison ivy vine is found throughout climbing into the canopy. The ground layer is dominated by poison ivy and aster species.
FOD7-1(tile 37) Fresh-Moist White Elm Lowland Deciduous Forest with FOD7-2 inclusion	White elm and ash dominate the canopy in this small community which occurs in a narrow band to either side of the water course in the western side of the property. Due to its narrow size there is a very thick understory component which is dominated by red raspberry, buckthorn and blackberry. Ground cover is dominated by grasses, goldenrods and garlic mustard.
FOD7-1(tile 43) Fresh-Moist White Elm Lowland Deciduous Forest	This community was younger and more open than the adjacent community with white elm, trembling aspen and basswood dominating. The understory was sparse with sumac, grey dogwood and buckthorn and little to no identifiable ground layer. Some pooling water was also evident within the community.
FOD7-1(tile 44) Fresh-Moist White Elm Lowland Deciduous Forest	This community is dominated by American elm, white ash, black walnut and red oak in the canopy. The sub-canopy was also well vegetated with white ash, white elm and ironwood. The understory is sparsely vegetated with a few sumac and hawthorn, and the ground layer was found to contain equal amounts of goldenrod and aster with some smooth brome grass.
FOD7-2(tile 22) Fresh-Moist Ash Lowland Deciduous	This community is found adjacent to and east of Oil heritage rd. and south of Douglas line. The community is low lying and dominated by green ash and eastern cottonwood in the canopy. Sub-canopy species are predominantly

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Forest with FOD7-3 inclusion	green ash with ironwood and black walnut. The understory is relatively sparse cherry sp. Is the dominant vegetation. Ground cover is dominated by avens, wild red raspberry and running strawberry bush. An inclusion of willow lowland is found along the edges of the small creek which runs through this community.
FOD7-2(tile 25) Fresh-Moist Ash Lowland Deciduous Forest with SWD3-3 inclusion	This community was highly variable as it was a transition area between the sloped sugar maple community and a deep creek. The area was very flat and numerous pockets of standing water with deciduous swamp inclusions were found throughout. The primary community consisted of a green ash canopy with occasional white elm and very little understory; the ground cover is almost entirely dominated by young garlic mustard.
FOD7-2(tile 27) Fresh-Moist Ash Lowland Deciduous forest	This narrow community borders the drainage which flows in two separate areas to the south of the old rail line. It is dominated by ash, sugar maple and hawthorn, with garlic mustard and vine species in the ground cover. Due to the nature of the community it functions more as a hedgerow with drainage.
FOD7-2(tile 34) Fresh-Moist Ash Lowland Deciduous Forest	This forest community is heavily managed with marked trees, trails, stumps and log piles found throughout. As a result canopy composition may be artificial due to removal of other species. The canopy is dominated by ash species with shagbark hickory, sugar maple and red oak. The Understory is dominated by blue beech, sugar maple and white elm with some wild red raspberry. The ground layer is dominated by sedges, grasses and wild strawberry.
FOD7-2(tile 44) Fresh-Moist Ash Lowland Deciduous Forest	This early successional community is heavily vegetated by white ash saplings in the sub-canopy, with only rare Large toothed aspen in the canopy. The Ground layer is also sparse with garlic mustard and occasional strawberry plants.
FOD7-3(tile 22) Fresh-Moist Willow Lowland Deciduous Forest with CUM1-1 inclusion	This community is found along a slope between the field and drainage ditch to the west of Oil heritage rd. This community was surveyed using roadside elc as landowner permission was not obtained. Willow species dominate the canopy in this community with some ash also present. The sub-canopy is dominated by hawthorn and ash with apple and Manitoba maple. The understory is quite full with common buckthorn and tartarian honeysuckle dominating. Ground cover includes goldenrods and paniced aster. Near roadside an inclusion of cultural meadow is present.
FOD7-3(tile 31) Fresh-Moist Willow Lowland Deciduous Forest	This community is found along the floodplain of a creek running from the north-east to the south-west corner of the property, areas to the north-east have been heavily planted with coniferous trees, and the southern area is more naturalized and is described here. This community is dominated by very large willows with white elm and green ash associates. The understory is heavily thicketed with honeysuckle and buckthorn dominating. Ground cover was rich with goldenrod, herb Robert and sedges dominating.
FOD7-3(tile 44) Fresh-Moist Willow Lowland Deciduous Forest	Willow is the dominant canopy species in this community with green ash and American elm also in abundance. The Sub-canopy is dominated by green ash, sugar maple, American elm and riverbank grape. The understory is sparsely vegetated by sumac and hawthorn and the ground layer is dominated by garlic mustard, strawberry, goldenrod and riverbank grape.
FOD7-4 Fresh- Moist Black Walnut Lowland Deciduous with FOD9- 3 complex	This community is found on a steep slope leading into a lowland riverine area, which accounts for the high variability in species found throughout. Black walnut dominates especially close to edges and along a small drainage ditch within the community. Ground cover was predominantly wild strawberry with garlic mustard occurring in high proportions in the bur oak complex portions of the

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	community. Red raspberry is found throughout the understory of the bur oak community with buckthorn the predominant species in the understory of the black walnut lowland.
FOD7-6*(tile 23) Fresh- Moist Ash- Basswood Lowland Deciduous Forest with SDW2-2 inclusion	This community had equal proportions of green ash and American basswood in the canopy with associate species including bitternut hickory and sugar maple in the sub canopy. The groundcover consisted of goldenrods, asters and sedge species. The inclusion has green ash and freeman maple in the canopy with blue beech and bur oak in the sub canopy.
FOD7-7* (tile 43) Fresh-Moist Bur Oak- Poplar Lowland	This community is dominated by American basswood and bur oak, with some eastern cottonwood and large toothed aspen. It is found growing to the north of the hydro line, north of ridge road and east of Jericho road. The understory consisted of buckthorn, black berry and sumac with a ground layer of goldenrod, wild carrot, strawberry and garlic mustard.
FOD7-8*(tile 44) Fresh-Moist American Basswood-White Ash- White Elm Deciduous Forest	This community is found on a steep slope surrounding a small stream. It is dominated equally by American basswood and white ash, with an understory consisting of American beech, white elm and white ash. The Ground layer is dominated by garlic mustard and mosses.
FOD8-1 (tile 28) Fresh-Moist Poplar Deciduous Forest	This young forest with a fairly open canopy is dominated by balsam poplar, trembling aspen and red maple. The understory included a number of shrub species with red raspberry and hawthorn dominating. The ground layer is dominated by grasses and goldenrods. Some very large Balsam poplars are found along the edge, this community was classified without entering the property as landowner permission was not available.
FOD9-1(tile 34) Fresh-Moist Oak- Sugar Maple Deciduous Forest	This community was described using roadside ELC as access was not available to the property. The canopy appeared to be dominated by road oak, bur oak and shagbark hickory with sugar maple and American beech found throughout the understory. Ground cover is sparse with some goldenrod species and red raspberry. Evidence of logging activity was observed with fresh stumps and log piles noted.
FOD9-1(tile 40) Fresh-Moist Oak- Sugar Maple Deciduous Forest with CUP3-8 inclusion	This community which is found to the south west of the drainage area is relatively disturbed with large piles of old foundation partially buried in a few areas, and evidence of logging activity. The inclusion of a small white spruce plantation is also indicative of a managed forest community. The canopy is dominated by Red oak, sugar maple and white elm with a sub-canopy dominated by ironwood and white elm with blue beech and bitternut hickory. The understory is sparse with some spice bush, red raspberry and glossy buckthorn. The ground layer is relatively sparse with zigzag goldenrod, aster and wild strawberry dominating.
FOD9-2(tile 1) Fresh-Moist Oak- Maple Deciduous Forest	This community, found at the north end of the study area, is dominated by red oak, shagbark hickory and freeman maple. The understory is dominated by ironwood, blue beech, hawthorn and young shagbark hickory with sedges and strawberry dominating the understory. Standing pools of water were prevalent within the community, however heavy rains had occurred with 24hrs previous to site visit.
FOD9-2(tile 34) Fresh-Moist Oak- Maple Deciduous	This community is found to the north of the drainage area which runs through the forested communities. It is dominated by red oak with shagbark hickory and bitternut hickory associates. The understory is dominated by red raspberry,



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Forest	buckthorn and gray dogwood, with zigzag goldenrod, garlic mustard and other goldenrod species in the ground layer. Logging activity is occurring, evidenced by stumps and log piles as well as the sounds of active logging to the west of study site.
FOD9-2(tile 39) Fresh-Moist Oak-Maple Deciduous Forest with MAM2-2 inclusion	Bur oak dominates this community with Freeman's maple and sugar maple in the canopy. This community is heavily deer browsed and has many piles of woody debris and downed trees. The sub-canopy includes white elm and ironwood with young sugar maple, this community transition to a more mature sugar maple dominated community to the north. The understory is dominated by red raspberry, black cherry and buckthorn with a ground layer consisting of herb Robert, wild strawberry and sedges.
<b>Cultural (CU)</b>	
<b>Cultural Plantation (CUP)</b>	
CUP3-2(tile 8) White Pine Coniferous Plantation	This community was assessed from the property boundary as access was not available for the adjacent land. The canopy is found to contain white pine with some maple found along the edge and staghorn sumac along the community boundary.
CUP3-2(tile 22) White Pine Coniferous Plantation	This small plantation is found in a small pocket along the eastern edge of the center property, it is planted with white pine with the rare black walnut found on edges. The ground layer, which included a number of species, is dominated by garlic mustard, sedge spp. And goldenrod spp.
CUP3-3(tile 43) Scots Pine Coniferous Plantation	This small plantation of scots pine is found to the north and south of ridge road, both areas are quite small with some mature and some young trees. Other species found within the community include white ash and apple. The understory included some buckthorn and the ground layer was absent.
CUP3-8 (tile 8) White Spruce Coniferous Plantation	This small plantation found at the West end of the optioned property along the decommissioned rail line, comprised of mature white spruce with a heavy ground layer of garlic mustard.
<b>Cultural Meadow (CUM)</b>	
CUM1-1 Dry-Moist Old Field Cultural Meadow	This community is found in a number of areas within the study site in association with the MAM2-2 drainage areas, as well as a number of individually described communities as indicated below. Species composition is quite similar throughout with goldenrods, asters, wild carrot and teasel forming the majority of the community.
CUM1-1 (tile 8,43) Dry-Moist Old Field Cultural Meadow	This community is found along the decommissioned rail line and is dominated by various ground layer species including goldenrod, aster and dandelion. The understory and canopy are also present with white elm and maple in the canopy and red-osier dogwood and staghorn sumac in the understory. Communities along the rail line are relatively disturbed.
CUM1-1(tile 26) Dry-Moist Old Field Cultural Meadow with MAS2-3 inclusion	Goldenrods, grasses and asters dominate this community which is found along a drainage ditch running from west to east across the property. A small inclusion of rice-cut grass is also found within the drainage community.
CUM1-1(tile 36) Dry-Moist Old Field Cultural Meadow	This community is found on the east side of Hillsboro rd. to the north of Michigan line. This small community is dominated by goldenrods and grasses in the ground layer with gray dogwood, eastern white cedar and white elm in the canopy. It was described using roadside elc due to lack of property access.



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CUM1-1(tile 39) Dry-Moist Old Field Cultural Meadow	This community runs along highway 402 at the back of a number of properties behind the woodlots, the canopy is very sparse and includes ash and trembling aspen. The understory is also sparse with some gray dogwood and red osier dogwood especially along edges. The ground layer is the dominant layer and includes species of goldenrods, grasses and asters with some wild strawberry near woodland edges.
CUM1-1(tile 44) Dry-Moist Old Field Cultural Meadow	This small community is found in a small opening adjacent to the agricultural field. It is dominated by goldenrod with asters. Some hawthorn is present in the understory with rare large-toothed aspen.
<b>Cultural Thicket (CUT)</b>	
CUT1-1(tile 34) Sumac Mineral Cultural Thicket with MAM2-2 inclusion and CUM1-1 complex	This highly disturbed cultural community is found in an isolated pocket in the center of an agricultural field. It is highly variable in composition with numerous complex and inclusion areas, as well as a number of very large old cut down trees and old farm machinery. Canopy species are relatively sparse with bur oak, ash and sugar maple. The understory is dominated by Sumac and gray dogwood with some red raspberry. Ground cover is variable with goldenrods, aster and grasses dominating with the exception of a reed canary grass meadow marsh inclusion which is being overtaken by phragmites.
CUT1-4(tile 9) Gray Dogwood Mineral Cultural Thicket	This community is found along either side of a decommissioned rail line running through the north east end of the study area. Gray dogwood formed the majority of the understory with numerous cultural meadow species in the open grassy area running down the center, including grasses, goldenrod and common yarrow.
CUT1-4 (tile 9) Gray Dogwood Mineral Cultural Thicket with FOD7-2 inclusion	This community is found along either side of a drainage area along the north side of Cedar point line. The community is made up of a number of different areas with the majority found to be a cultural thicket with gray dogwood and staghorn sumac. An inclusion of green ash lowland is also present in the wider portions of the drainage area which is not active agriculture.
CUT1-4(tile 40) Gray Dogwood Mineral Cultural Thicket	This Thicket is almost entirely dominated by gray dogwood with the occasional ash and white elm in the canopy, and buckthorn near edges. Groundcover is predominantly goldenrods with some sedges and common burdock.
CUT1-4(tile 41) Gray Dogwood Mineral Cultural Thicket	This small community is found along two edges of a cultural meadow area with a large cement structure in the southwest corner of the communities. This thicket has high proportions of Norway spruce and white elm in the canopy. Gray dogwood, hawthorn and rose dominate in the understory. The Ground layer is dominated by wild strawberry, goldenrod spp. and aster spp.
CUT1-5(tile 27) Raspberry Mineral Cultural Thicket	Wild red raspberry dominates the understory in this community which is found along portions of the old railway line, with some honeysuckle also found throughout. The ground layer is dominated by garlic mustard, goldenrods and to a lesser extent common motherwort.
CUT1-7* (tile 25) Hawthorn-Buckthorn Mineral Cultural Thicket	Hawthorn and buckthorn dominate this community which forms a very wide hedgerow type community along the more southern edges of the wooded area at the south end of the property. This community is very dense shrubs with very little ground cover. Groundcover found within the thicket includes garlic mustard and wild strawberry.
CUT1-8* (tile 31)	Honeysuckle dominates this community heavily which grows along either side

**Reference: Fall Botanical and ELC  
Cedar Point Wind Project**

<b>Table 2 Ecological Land Classification (ELC) Vegetation Types</b>	
<b>ELC TYPE</b>	<b>Community Description</b>
Honeysuckle Mineral Cultural Thicket	of a deep drainage area. The canopy included the occasional willow, and ash tree, with the understory containing staghorn sumac and rose in association with the honeysuckle which dominates. The ground later is variable with many areas of exposed soil due to bank erosion, but included species such as goldenrod, reed canary and aster.
CUT1-9*(tile 27) Hawthorn Mineral Cultural Thicket	This community is dominated by hawthorn in the canopy with ash and white elm occurring very rarely. The ground layer is dominated by grasses, goldenrod and sedges. This community included numerous linear ditches resembling furrows with some standing water, possibly an old field.
CUT1-9* (tile 29) Hawthorn Mineral Cultural Thicket	This community was fairly open with Cultural meadow species found throughout the understory including goldenrod, grasses and aster species. The canopy included a few ash and white elm with some apple which may be indicative of an old orchard. The understory was the dominant layer with hawthorn, rose and red raspberry forming the majority of the community.
CUT1-9*(tile 44) Hawthorn Mineral Cultural Thicket	This culturally influenced community is dominated in the understory by hawthorn, with no canopy or sub canopy. The ground layer is dominated by goldenrods and asters.
CUT1-10* (tile 37) Buckthorn Mineral Cultural Thicket with SWD2-2 inclusion	This community is bisected by a water course with very deep embankments; it is heavily disturbed with the exception of a small green ash swamp inclusion. The canopy is dominated by ash, sugar maple and Manitoba maple with buckthorn and hawthorn dominating the understory. Ground cover is variable in proportions with garlic mustard and goldenrods occurring in vegetated areas and many areas with only exposed soil.
CUT 1-11* (tile 43) Prickly Ash Mineral Cultural thicket	This thicket community is found in two areas of the optioned property, one area is found in a dense row along the decommissioned rail line and a second much larger thicket community is found to the west of the forest communities within the property. Prickly ash dominates the understory with some sumac and gray dogwood. Black walnut and hawthorn are occasionally found within the canopy layer and ground cover consists of mainly grasses and forbs.
<b>Cultural Woodland (CUW)</b>	
CUW1-3* (tile 43) White Ash-American Elm Cultural Woodland	This community, assessed from the roadside, is dominated by young white ash and American elm. Some white and red cedar is also present in the canopy. The understory consists of sumac and gray dogwood; species of aster and goldenrod are prevalent in the ground layer as well as open areas within the community. The proximity to the road and nearby residence indicates a strong cultural influence.
<b>Swamp</b>	
<b>Deciduous Swamp (SWD)</b>	
SWD2-2 (tile 25) Green Ash Mineral Deciduous Swamp	This community is dominated by green ash with trembling aspen, white elm and willows forming the rest of the canopy. The groundcover is predominantly sedges with some wood nettle in areas without standing water.
SWD2-2 (tile 27) Green Ash Mineral Deciduous Swamp with FOD7-5 complex	Green ash dominates the canopy in this community with basswood and bur oak. The sub-canopy and understory is also dominated by green ash with a high proportion of basswood. Ground cover was dominated by asters, sedges and avens species. The complex found throughout the site is dominated by equal proportions of black maple and basswood with aven and violet species.
SWD2-2(tile 36)	This community was described using roadside elc as access was not available

**Reference: Fall Botanical and ELC  
Cedar Point Wind Project**

<b>Table 2 Ecological Land Classification (ELC) Vegetation Types</b>	
<b>ELC TYPE</b>	<b>Community Description</b>
Green Ash Mineral Deciduous Swamp	to the property. The canopy is dominated by ash species with red oak, white elm and shagbark hickory; understory species included gray dogwood, buckthorn and honeysuckle. Ground cover observed include goldenrod and wild strawberry. Areas of standing water were observed which concluded a swamp community though further onsite investigation would be required to confirm.
SWD2-2(tile 41) Green Ash Mineral Deciduous Swamp	This community is dominated by equal proportions of green ash and Freeman's maple with some sugar maple and basswood also in the canopy. The sub-canopy was sparse with some American beech and Freeman's maple. The understory is also sparse with some red raspberry and rarely red-osier dogwood. The ground layer contained a number of sedge spp., zigzag goldenrod and other goldenrod spp.
SWD3-3 (tile 40) Swamp Maple Mineral Deciduous Swamp	This community is found in a low lying area to the south of the drainage channel and is made up of very mature trees. The canopy is dominated by freeman maple, and silver maple with some ash and red oak, the understory is very sparse with only the occasional black cherry and blue beech. The Ground layer is also very sparse with only some sedge spp. apparent at time of survey.
SWD3-4* (tile 9) Mixed-Maple Mineral Deciduous Swamp	This community is found bordering the edges of a small watercourse running through the community, as well as associated pooled water areas adjacent to the waterway. The canopy is dominated equally by both Freeman's and silver maple with occasional red maple. The understory is sparse with some winterberry and nannyberry, the ground layer contains occasional beaked sedge, aster and goldenrod species.
<b>Thicket Swamp (SWT)</b>	
SWT2-5(tile 8) Red-Osier Dogwood Mineral Thicket Swamp	This small thicket swamp was found adjacent to a drainage area along the east side of the white spruce plantation. The canopy includes a couple of standing trees with green ash and willow the majority, the understory consists entirely of red osier dogwood, with standing water throughout.
SWT2-9(tile 43) Gray Dogwood Mineral Thicket Swamp	This community is within the property to the east of Jericho road and north of ridge rd. It is dominated by the understory layer which consists of gray dogwood with occasional sumac. Some species are present in the canopy in low numbers including willow and ash.
<b>Marsh (MA)</b>	
<b>Meadow Marsh (MAM)</b>	
MAM2 (tile 27) Mineral Meadow Marsh	This community is found to the south of the old rail line in a small area that appears to have been used as pasture; as a consequence a full elc community description was not obtained. Due to the very wet nature of the field with some wet pooling it has been categorized as a meadow marsh which is dominated by unknown graminoid species with some wild carrot and goldenrod.
MAM2-2 Reed Canary Mineral Meadow Marsh	This community is found in numerous locations throughout the study area. It is associated with the majority of drainage ditches and small creeks unless otherwise indicated. Species composition is a high proportion of reed canary grass with aster, goldenrod and teasel in the ground cover. The understory is found to include gray dogwood, red osier dogwood and willow shrubs in varying proportions.
MAM2-2(tile 36) Reed Canary Mineral Meadow Marsh with	This community, which was described using roadside elc, is dominated by reed canary grass with one small inclusion of cattail shallow marsh to the north of Michigan line. Other species found in the ground layer include goldenrod, aster

**Reference: Fall Botanical and ELC  
Cedar Point Wind Project**

<b>Table 2 Ecological Land Classification (ELC) Vegetation Types</b>	
<b>ELC TYPE</b>	<b>Community Description</b>
MAS2-1 inclusion	and common teasel with a few rare eastern white cedar and ash in the canopy.
MAM2-2(tile 43) Reed Canary Mineral Meadow Marsh	Reed canary grass dominates this community found to the north of ridge rd. areas of this community appear to be managed with planted jack pine and red cedar bordering ponds of open water. Other species in the ground layer include red top and aster species.
<b>Shallow Marsh (MAS)</b>	
MAS2-2(tile 28) Reed Canary Grass Shallow Mineral Marsh with MAS2-1 complex and MAS2- 10 and CUT1-4 inclusions	This community is associated with the drainage which runs along the West and southern edges of the property. The majority of this community is dominated by reed canary grass in the ground layer with occasional willow and white elm in the canopy. It is complexed with areas of cattail marsh especially along the southern drainage, as well, inclusions of phragmites dominated shallow marsh and gray dogwood cultural thickets are found in a number of areas.
MAS2-2(tile 40) Reed Canary Grass Shallow Mineral Marsh	This community runs along a drainage area from the west side of the tile across to the south east. It is dominated by the ground layer with reed canary grass, goldenrod and aster. The understory is dominated by red raspberry, with occasional red cedar, and a small sub-canopy including rose, buckthorn and apple. The canopy is very open with only the occasional white elm and balsam poplar. This community is very disturbed with crops growing within a meter of the edge.
MAS2-3(tile 43) Narrow-Leaved Sedge Mineral Meadow Marsh	This small sedge marsh surrounds an area of open aquatic within the same open area to the north of ridge rd. It is dominated by narrow-leaved sedge, with a small pocket of phragmites bordering the north east end of the open aquatic. Planted jack pine is also found scattered near the edges of the community.
MAS2-4 (tile 25) Broad-leaved Sedge Mineral Shallow Marsh	This community is found in an open area to the south west of the property just outside the boundary of the zone of investigation. It is dominated by sedges, with grasses and goldenrod forming a high proportion of the area. Edges of this community had large numbers of shrubs including gray dogwood and Indian hemp. Some small ash saplings were found within the community.
MAS2-8(tile 22) Rice-Cut Grass Mineral Shallow Marsh with CUM1-1 complex	This small community is found in a drainage area in the eastern side of the property south of Douglas line. It is dominated by rice-cut grass with some cattail and bulrush spp. the community is surrounded by cultural meadow on the slopes of drainage ditch.

\*ELC code not included in the First Approximation of ELC for Southern Ontario

Only one of the vegetation communities listed above is considered rare in the province. The fresh to moist sugar maple-black maple deciduous forest is ranked as S3 (vulnerable) in Ontario.

**Vascular Plant Species**

One hundred and two species of vascular plants were recorded from the subject lands during the inventories. Of that number, 75 species or 74% were native and 27 species or 26% were exotic. The majority of the native species grew in the undisturbed woodland and wetland communities (deciduous forests, deciduous swamps), while most of the introduced species grew in the cultural meadow,

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November 29, 2011

FILE

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**Reference: Fall Botanical and ELC  
Cedar Point Wind Project**

hedgerows and drainage ditches, with some forming an understory component in woodlands.

**All but three of the native species are ranked S5 (Secure in Ontario) with the remainder, American sycamore, black walnut and black maple, ranking S4 (apparently secure in Ontario).no species inventoried were found to be S1-S3.**

Only one species observed had a CC of 9 or 10, Jack pine; however this species was observed in a wet meadow community and appears to be planted.

**No nationally or provincially rare, threatened or endangered species were found.**

### **Wildlife and Wildlife Habitat**

Species observed incidentally during the survey period include; Downy Woodpecker, Blue Jay, Dark-eyed Junco, American Gold Finch, Northern Flicker, American Pipit, Red-tailed Hawk, Hairy Woodpecker, Canada Goose (large flocks), Mourning Dove, American Crow, American Kestrel, Tundra Swan(flock 40+), Black-capped Chickadee, Northern Cardinal, European Starling, House Sparrow, American Robin, Pileated Woodpecker, Eastern Cottontail and White-tailed Deer .

Wildlife habitat on site is plentiful and varied with numerous large tracts of woodland and wetland habitat. However, in some areas it is limited or fragmented due to the large tracts of agriculture and major roads within the study area. Natural areas included large tracts of wetland and woodland habitats. Cultural areas included one remnant white spruce plantation, one white pine plantation and many areas of cultural thicket and cultural meadow. Numerous slow moving streams and drainage areas were observed throughout the majority of the study area, with a number winding through woodlands in deep channels and numerous drainage ditches within agricultural areas.

### **STANTEC CONSULTING LTD.**

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Terrestrial Ecologist  
[Cherylanne.payette@stantec.com](mailto:Cherylanne.payette@stantec.com)

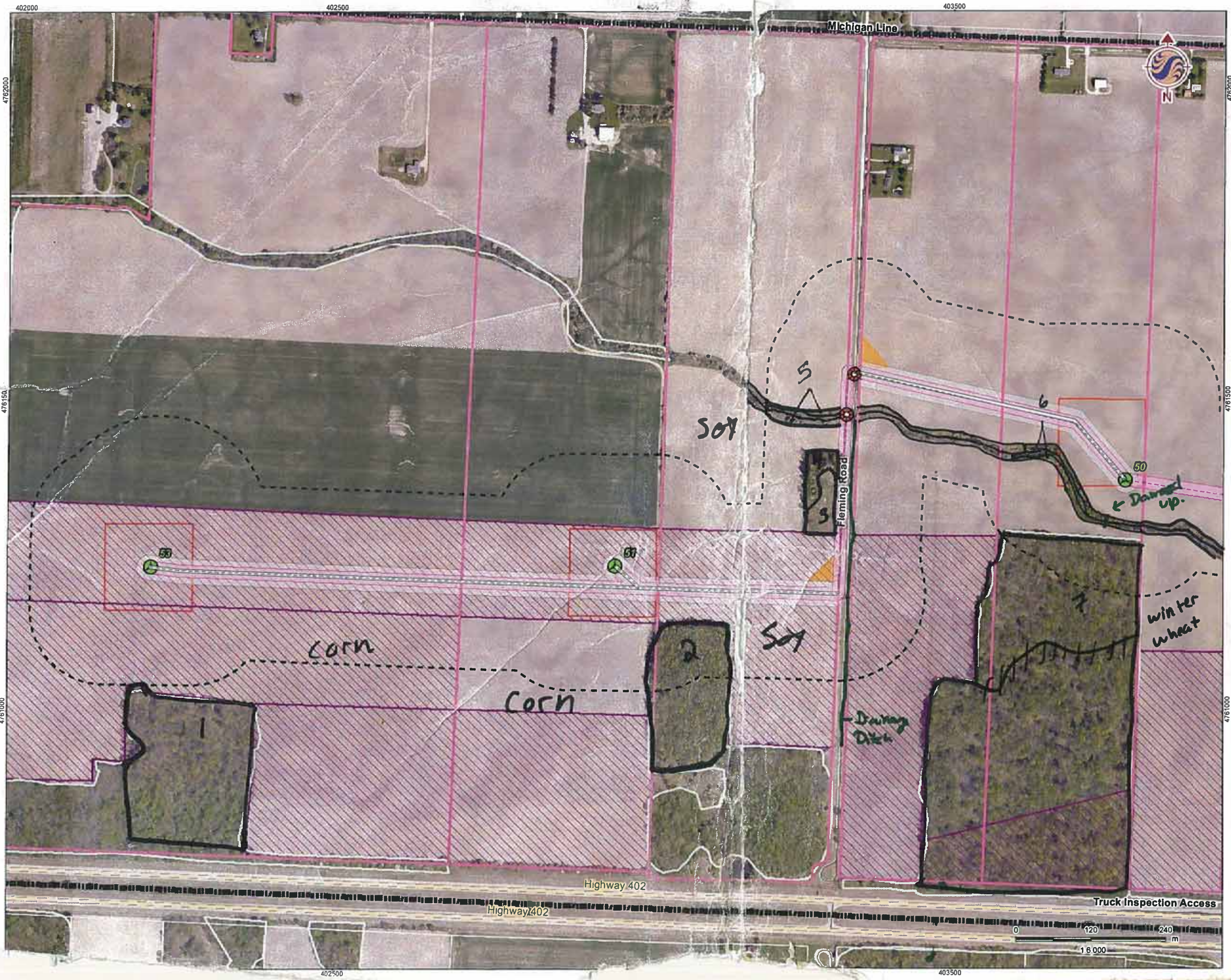
Attachments: Field Notes and Plant List

**Reference: Fall Botanical and ELC  
Cedar Point Wind Project**

## **REFERENCES**

- Bakowsky, W.D. 1996 (draft). Natural heritage resources in Ontario: S-ranks for communities in Site Regions 6 and 7. Natural Heritage Information Centre, Ontario Ministry of Natural Resources, Peterborough. 11 pp.
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**Legend**

- 120m Zone of Investigation
- Proposed Turbine Location
- MET Tower
- Culvert Location
- HD Location
- Access Road
- Transmission Line
- Underground Collector Line
- Turbine Laydown Area
- Substation
- Access Road ROW (40m)
- Underground Cable ROW (20m)
- Stage II Archaeological Survey Area
- Expressway / Highway
- Road
- Watercourse
- Waterbody
- Municipal Boundary
- Property Boundary

**DRAFT**

**Notes**

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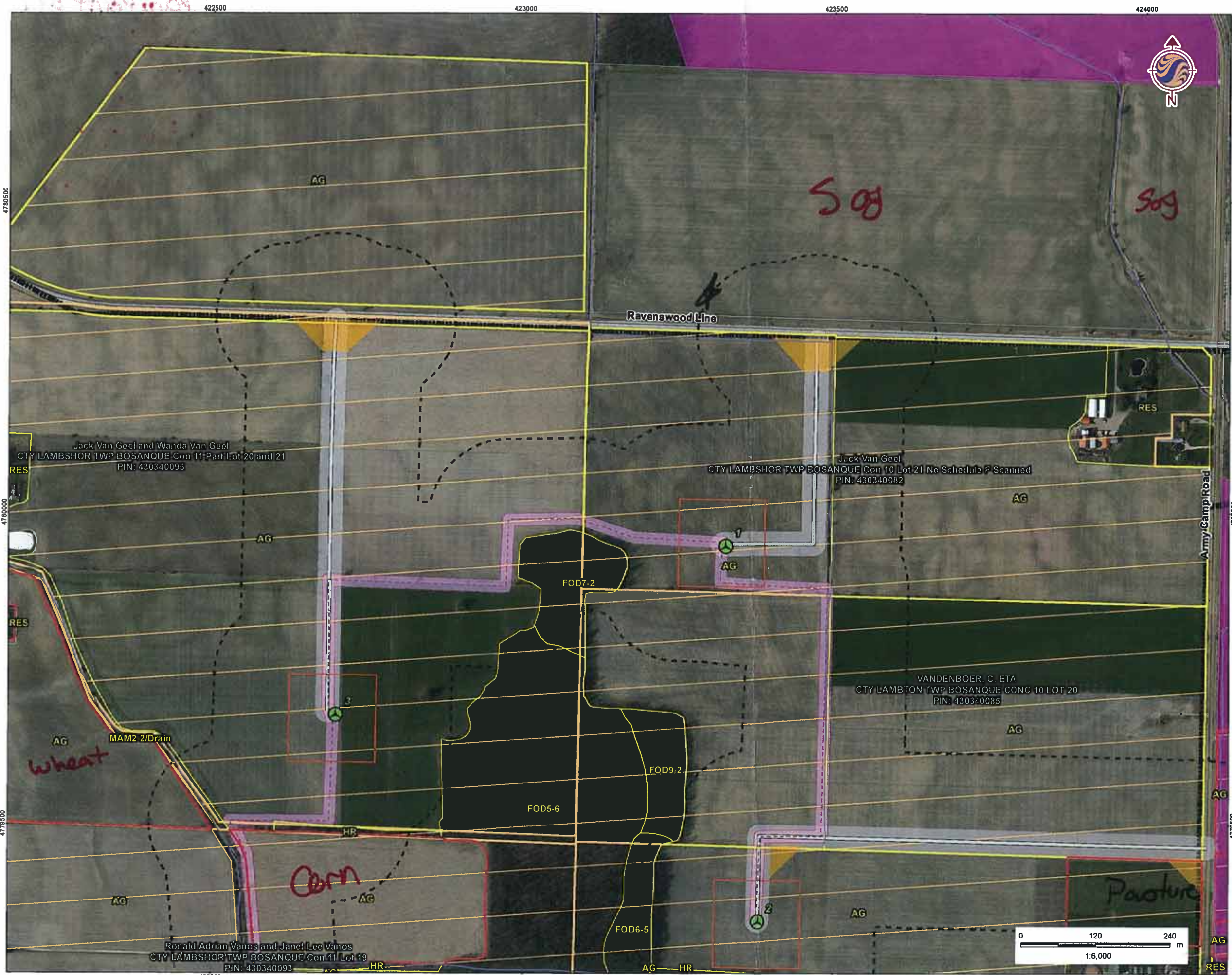
November 2011  
160960709

Client/Project  
Suncor Energy  
Cedar Point Wind Project

Figure No  
Tile 41 of 42

Title  
**Project Infrastructure**  
**Ver 11 Nov 07**





*A Ag type where red.*

- Legend**
- 120m Zone of Investigation
  - Proposed Turbine Location
  - MET Tower
  - Access Road
  - Transmission Line
  - Underground Collector Line
  - Turbine Laydown Area
  - Substation
  - Expressway / Highway
  - Road
  - Watercourse
  - Constructed Drain
  - Waterbody
  - Municipal Boundary
  - Property Boundary
- Land Status**
- Optioned Properties (Suncor)
  - NextEra Properties
- ELC Status**
- ELC - Need Codes
  - ELC- Complete

# DRAFT

- Notes**
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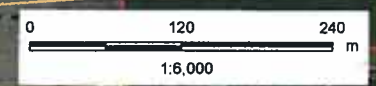
**Stantec**

July, 2012  
160960709

Client/Project  
Suncor Energy  
Cedar Point Wind Project

Figure No.  
Tile 1 of 54

Title  
**Project Infrastructure- Aquatics  
Ver- 12 June 27**





Cedar Point ELC  
July 4, 2012  
Tile 1  
C. Payette  
160960709



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## Woodland & Wildlife Habitat Assessment Form

**Stantec**

Project Number: 160960709

Project Name: Cedar Point

Date: Dec 16, 2011

Field Personnel: C. Payette

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	0	3-4	40-60	None	rain + snow

ELC Polygon: # 1-A Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

**Reptile / Bat Hibernacula Features:** Contains potential reptile hibernacula features?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)  
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]  
 Contains potential bat hibernacula features?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)  
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

**Bat Roosting Features:** Contains potential bat roosting features?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)  
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

**Stick Nests:** Contains large stick nests?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

**Seeps/Springs/Vernal Pools:** Contains seeps/springs/vernal pools?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED							
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?	

**SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)**

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scar; SI=other sign; TK=track; VO=vocalization









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## Woodland & Wildlife Habitat Assessment Form

**Stantec**

Project Number: 160960709

Project Name: Cedar Point

Date: Dec 16, 2011

Field Personnel: C. Payette

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	0	3-4	40-60	None	light rain + snow

ELC Polygon: # 1-B Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

**Reptile / Bat Hibernacula Features:** Contains potential reptile hibernacula features?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)  
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]  
 Contains potential bat hibernacula features?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)  
 [i.e. karst topography, abandoned mines or caves]

**POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED**

UTM	Feature Description	Photo No.	Spp. Observed Using Feature

**Bat Roosting Features:** Contains potential bat roosting features?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)  
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

**POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED**

UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

**Stick Nests:** Contains large stick nests?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)

**STICK NEST(S) IDENTIFIED**

UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature

**Seeps/Springs/Vernal Pools:** Contains seeps/springs/vernal pools?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)

**SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED**

UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

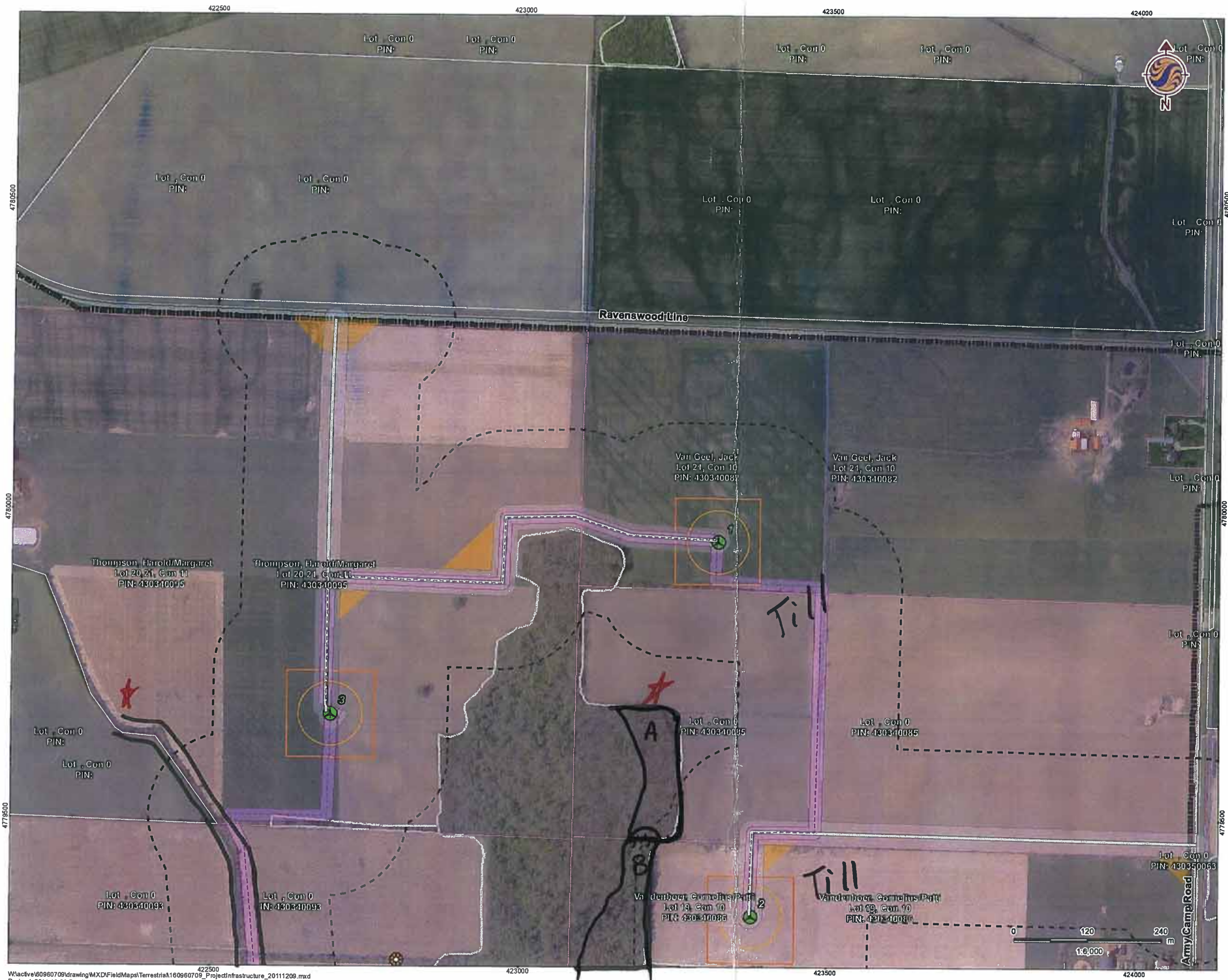
**SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)**

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scar; SI=other sign; TK=track; VO=vocalization









**Legend**

- 120m ZIO
- Proposed Turbine Location
- MET Tower
- Culvert Location
- HD Location
- Access Road
- Transmission Line
- Underground Collector Line
- Turbine Blade Tip
- Turbine Laydown Area
- Access Road ROW (40m)
- Underground Cable ROW (20m)
- Transmission Line ROW
- Substation
- Stage II Archaeological Survey Area
- Expressway / Highway
- Road
- Watercourse
- Waterbody
- Municipal Boundary
- Optioned Property
- Property Boundary

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December, 2011  
160960709

Client/Project  
Suncor Energy  
Cedar Point Wind Project

Figure No  
Tile 1 of 44

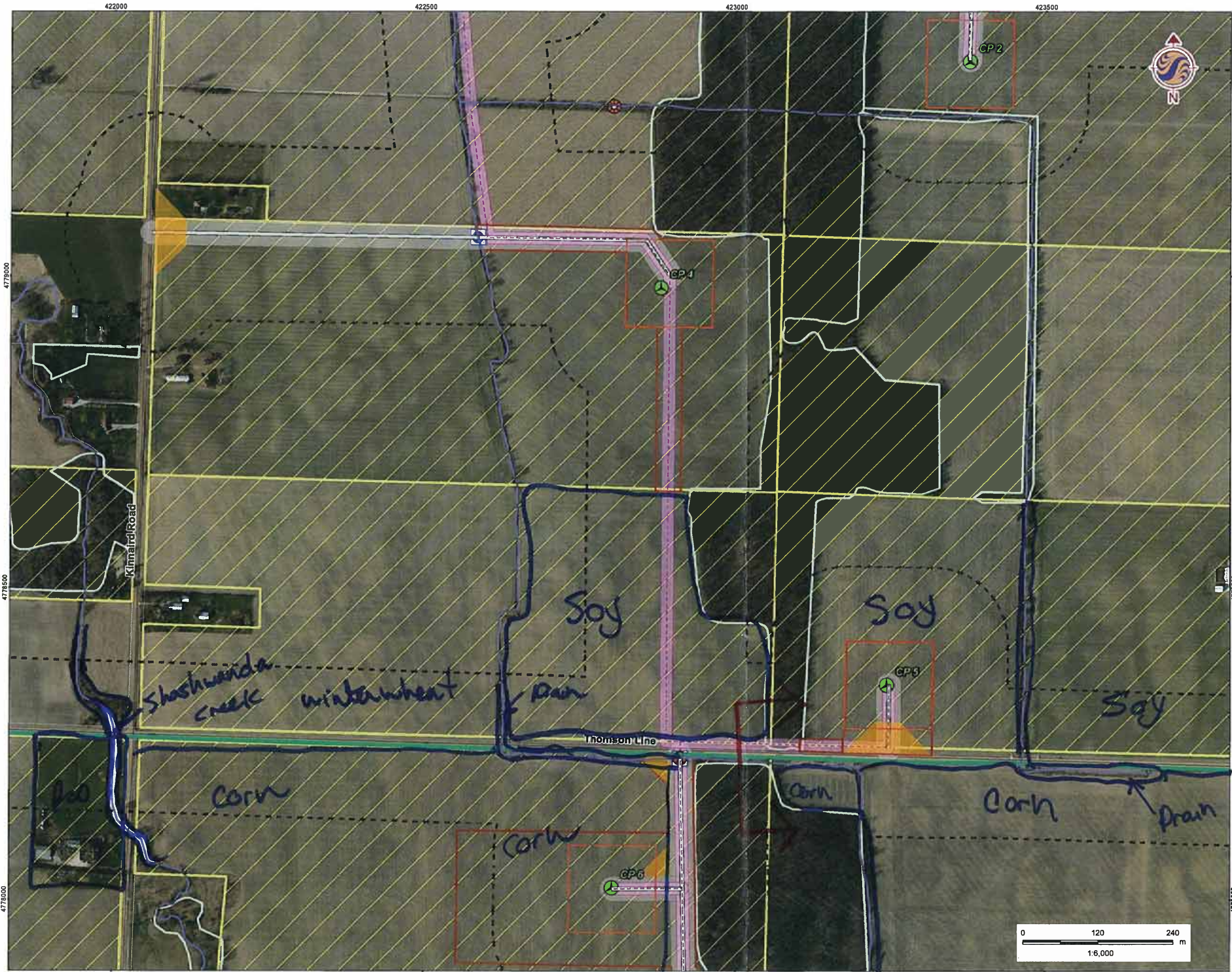
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Ver- 11 Nov 15 Rev 1**

Cedar Point  
Tile 1  
160960709

Dec 16, 2011







**Legend**

- 120m Zone of Investigation
- Proposed Turbine Location
- MET Tower
- Culvert Location
- HD Location
- Access Road
- Transmission Line
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- Turbine Laydown Area
- Substation
- Expressway / Highway
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- Watercourse
- Constructed Drain
- Waterbody
- Municipal Boundary
- Property Boundary
- Surveyed Areas (Archeology)
- Land Status**
- Optioned Properties (Suncor)
- Forest Lands
- NextEra Properties
- Optioned Properties (Eirin)

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roadside

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**Notes**

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May, 2012  
160960709

Client/Project  
Suncor Energy  
Cedar Point Wind Project

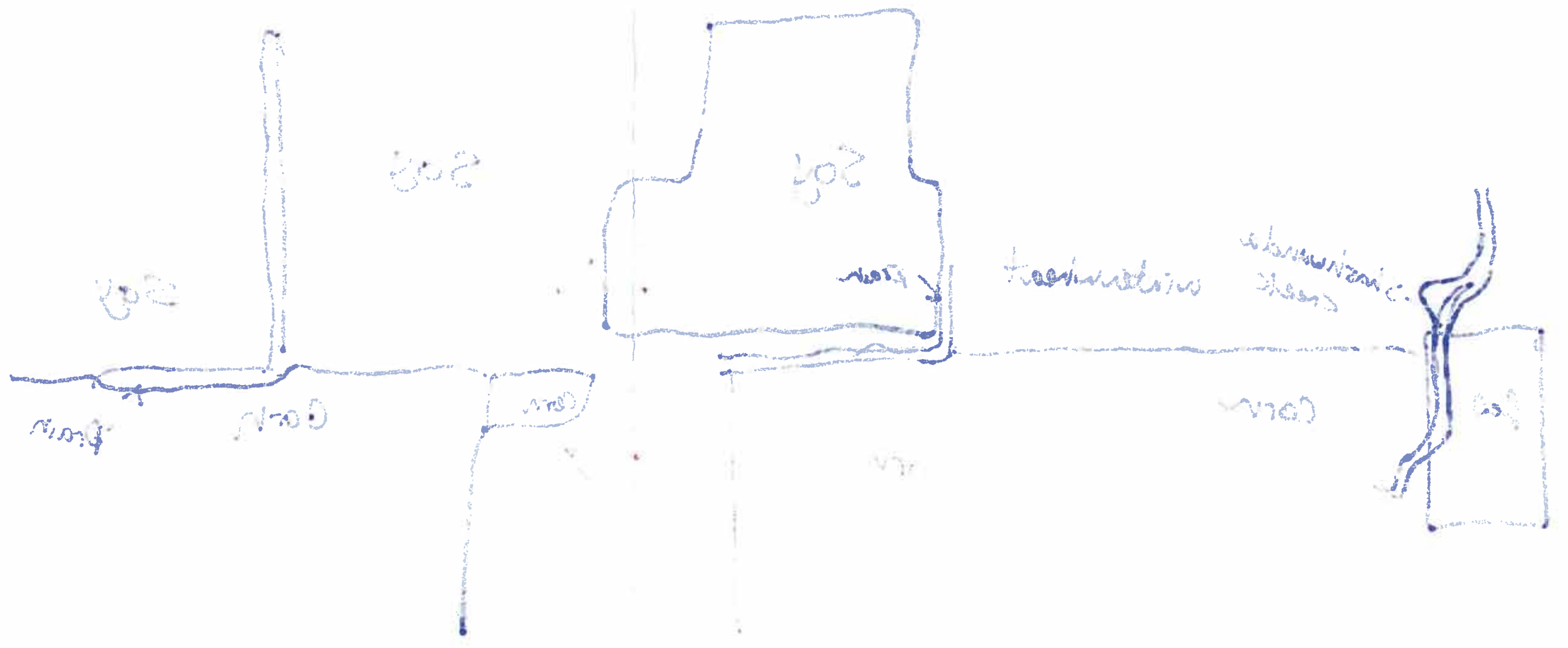
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Tile 2 of 54

Title  
**Project Infrastructure**  
**Ver- 12 May 07**



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160960709  
ELC  
C. Payette  
May 31, 2012  
tile 2.





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 Fax: (519) 836-2493

## Woodland & Wildlife Habitat Assessment Form

**Stanter**

Project Number: 160960709

Project Name: Cedar Point WF

Date: July 9, 2012

Field Personnel: C. Payne

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	30	3-4	Solo	None	Wad

ELC Polygon: #2-1 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

**Reptile / Bat Hibernacula Features:** Contains potential reptile hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]  
 Contains potential bat hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
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 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

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UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

**Seeps/Springs/Vernal Pools:** Contains seeps/springs/vernal pools?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED							
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?	
GPS networking	A-VP	15m	n/a	3	No	yes-abundant	

**SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)**

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scar; SI=other sign; TK=track; VO=vocalization



**ELC**  
 SITE: Cedar Point WF  
 SURVEYOR(S): C. Payette  
 DATE: July 9, 2012  
 POLYGON: 2-1  
 START: [ ] END: [ ]  
 UTMZ: [ ] UTMZ: [ ]  
 COMMUNITY DESCRIPTION & CLASSIFICATION: [ ]  
 POLYGON DESCRIPTION: [ ]

**STAND DESCRIPTION:**

SYSTEM: [ ] TERRESTRIAL [ ] WETLAND [ ] AQUATIC [ ]  
 SUBSTRATE: [ ] ORGANIC [ ] MINERAL SOIL [ ] PARENT MIN. [ ] ACIDIC BEDR. [ ] BASIC BEDR. [ ] CARB. BEDR. [ ]  
 TOPOGRAPHIC FEATURE: [ ] LAKESTRINE [ ] RIVERINE [ ] BOTTOMLAND [ ] TERRACE [ ] VALLEY SLOPE [ ] TABLELAND [ ] ROLL UPLAND [ ] CLIFF [ ] TALUS [ ] CREVICE / CAVE [ ] ALVAR [ ] ROCKLAND [ ] BEACH / BAR [ ] SAND DUNE [ ] BLUFF [ ]  
 HISTORY: [ ] NATURAL [ ] CULTURAL [ ] COVER [ ] OPEN [ ] SHRUB [ ] TREED [ ]  
 PLANT FORM: [ ] PLANKTON [ ] SUBMERGED [ ] FLOATING-LVD. [ ] GRAMINOID [ ] FORB [ ] BRYOPHYTE [ ] EPICHOLOUS [ ] CONIFEROUS [ ] MIXED [ ]  
 COMMUNITY: [ ] LAKE [ ] POND [ ] RIVER [ ] STREAM [ ] MARSH [ ] SWAMP [ ] FEN [ ] BOG [ ] BARREN [ ] MEADOW [ ] PRAIRIE [ ] THicket [ ] SAVANNAH [ ] WOODLAND [ ] FOREST [ ] PLANTATION [ ]

**STAND DESCRIPTION:**

LAYER: [ ] CANOPY [ ] SUB-CANOPY [ ] UNDERSTOREY [ ] GRD. LAYER [ ]  
 HT: [ ] CVR: [ ]  
 SPECIES IN ORDER OF DECREASING DOMINANCE:  
 (> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)  
 Goldenrod 2  
 Sensitive Fern  
 Green ash 2  
 Eastern White Pine 2  
 Maple  
 Green ash 2  
 Different Hickory  
 Green ash 2  
 White Red Top  
 Silver Birch  
 Goldenrod 2  
 Sensitive Fern  
 1=25m 2-10<HT<25m 3=2<HT<15m 4=1<HT<2m 5=0.5<HT<1m 6=0.2<HT<0.5m 7=HT<0.2m  
 8=NONE 1=0%-CVR<10% 2=10<CVR<25% 3=25<CVR<50% 4=50<CVR<80%

**STAND COMPOSITION:**

ZE CLASS ANALYSIS: [ ] BA: [ ]  
 TANDING SNAGS: [ ]  
 SADFALL LOGS: [ ]  
 UNANCE CODES: [ ]  
 MML AGE: [ ] PIONEER [ ] YOUNG [ ] MID-AGE [ ] MATURE [ ] OLD GROWTH [ ]

**DEPTH TO MOTTLESAGLEY** [ ]  
**DEPTH OF ORGANICS:** [ ]  
**DEPTH TO BEDROCK:** [ ]

**COMMUNITY CLASSIFICATION:**

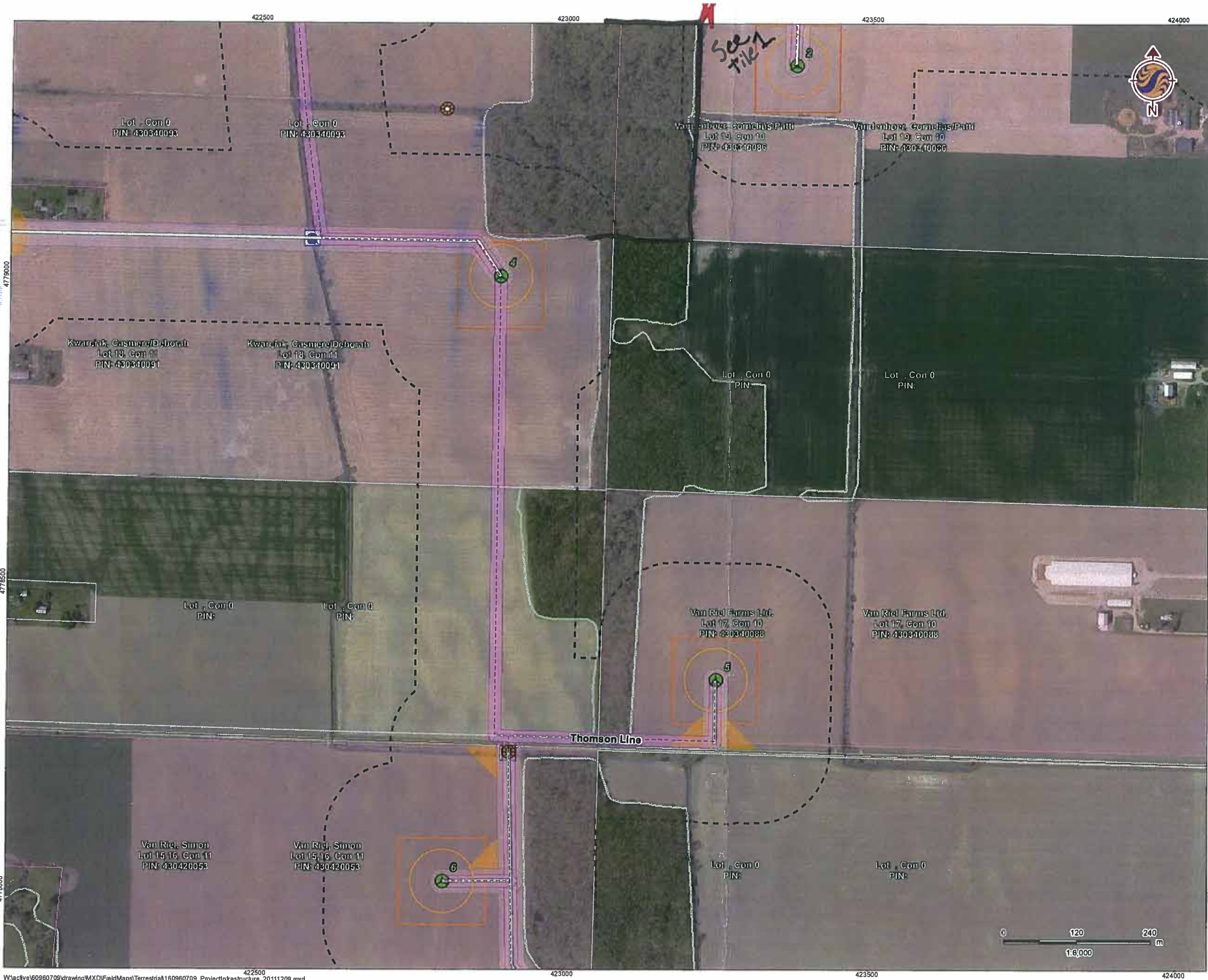
COMMUNITY CLASS: [ ]  
 COMMUNITY SERIES: [ ]  
 OSITE: [ ]  
 GETATION TYPE: [ ]  
 INCLUSION: [ ]  
 COMPLEX: [ ]

ence of Disturbance / Notes: [ ]  
 catapillar photo 1

**ELC**  
 SITE: [ ]  
 POLYGON: [ ]  
 COMMUNITY DESCRIPTION & CLASSIFICATION: [ ]  
 SURVEYOR(S): [ ]  
 DATE: [ ]  
 LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER  
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				COLL
	1	2	3	4	
Goldenrod					
Sensitive Fern					
Maple					
Eastern White Pine					
Green ash					
Different Hickory					
White Red Top					
Silver Birch					
Goldenrod					
Sensitive Fern					
Maple					
Eastern White Pine					
Green ash					
Different Hickory					
White Red Top					
Silver Birch					
Goldenrod					
Sensitive Fern					
Maple					
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Different Hickory					
White Red Top					
Silver Birch					
Goldenrod					
Sensitive Fern					
Maple					
Eastern White Pine					





- ### Legend
- 120m ZIO
  - Proposed Turbine Location
  - MET Tower
  - Culvert Location
  - HD Location
  - Access Road
  - Transmission Line
  - Underground Collector Line
  - Turbine Blade Tip
  - Turbine Laydown Area
  - Access Road ROW (40m)
  - Underground Cable ROW (20m)
  - Transmission Line ROW
  - Substation
  - Stage II Archaeological Survey Area
  - Expressway / Highway
  - Road
  - Watercourse
  - Waterbody
  - Municipal Boundary
  - Optioned Property
  - Property Boundary

# DRAFT

- ### Notes
1. Coordinate System: NAD 1983 UTM Zone 17N
  2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011
  3. Orthographic imagery provided by St. Clair Conservation Authority © First Base Solutions, 2011. Imagery taken in Spring 2006.



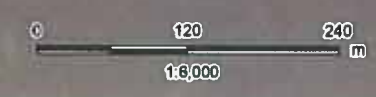
**Stantec**

December, 2011  
160960709

Client/Project  
Suncor Energy  
Cedar Point Wind Project

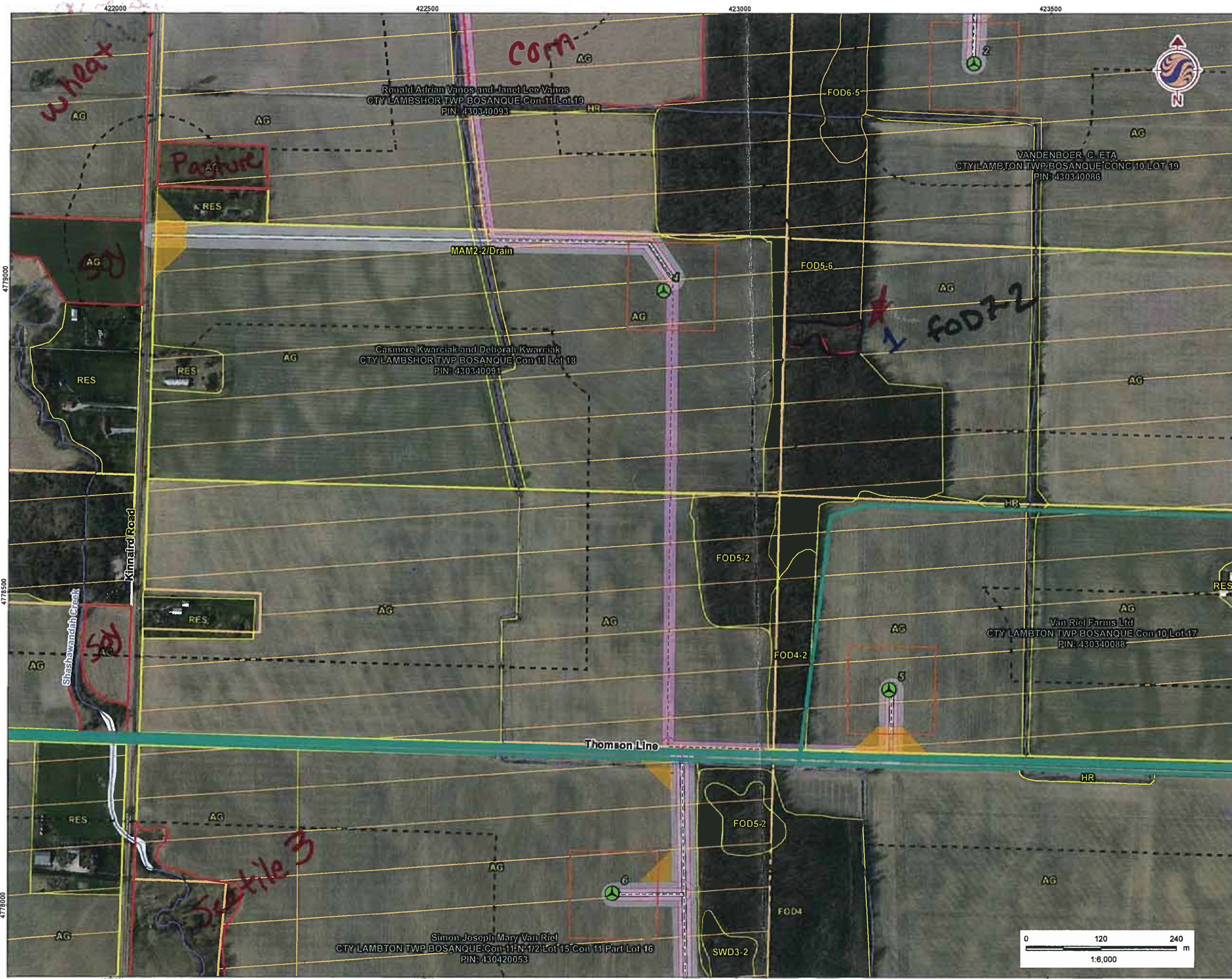
Figure No  
Tile 2 of 44

Title  
**Project Infrastructure  
Ver- 11 Nov 15 Rev 1**



LEON TAVH  
TILE 2  
160960709





- Legend**
- 120m Zone of Investigation
  - Proposed Turbine Location
  - MET Tower
  - Access Road
  - Transmission Line
  - Underground Collector Line
  - Turbine Laydown Area
  - Substation
  - Expressway / Highway
  - Road
  - Watercourse
  - Constructed Drain
  - Waterbody
  - Municipal Boundary
  - Property Boundary
- Land Status**
- Optioned Properties (Suncor)
  - NextEra Properties
- ELC Status**
- ELC - Need Codes
  - ELC - Complete

Red areas  
-Ag  
Flight Area  
infed

# DRAFT

- Notes**
1. Coordinate System: NAD 1983 UTM Zone 17N
  2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011. ©Lambton County 2011.
  3. Imagery Source- Suncor Energy Includes Material © 2011 of the Queens printer for Ontario. All rights reserved. Imagery Date: 2010



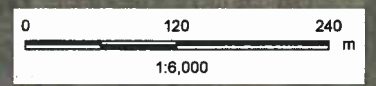
**Stantec**

July, 2012  
160960709

Client/Project  
Suncor Energy  
Cedar Point Wind Project

Figure No.  
Tile 2 of 54

Title  
**Project Infrastructure- Aquatics**  
Ver- 12 June 27





walk in  
tile 2  
July 9, 2011

1

2

3

4

5

6

7



Stanter Consulting Ltd.  
1 - 70 Southgate Drive  
Guelph, ON  
Canada N1G 4P5  
Tel: (519) 836-6050  
Fax: (519) 836-2493

## Woodland & Wildlife Habitat Assessment Form

**Stanter**

Project Number: 160960709

Project Name: Cedar Point

Date: July 10, 2012

Field Personnel: C. Pay He

Weather Conditions:	TEMP (°C): <u>29</u>	WIND: <u>3-4</u>	CLOUD: <u>0%</u>	PPT: <u>none</u>	PPT (in last 24 hrs): <u>none</u>
---------------------	-------------------------	---------------------	---------------------	---------------------	--------------------------------------

ELC Polygon: # 3-1 Assessment Type:  Visual; roadside, no access /  Physical; walk through feature

Extent of Physical Investigation of Feature:  Entire /  Partial, walk through polygon (Indicate on map)  
- an optical property

**Reptile / Bat Hibernacula Features:** Contains potential reptile hibernacula features?  
 Y\* /  N /  Unknown, no access (\*if yes, describe in table below)  
[i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]  
Contains potential bat hibernacula features?  
 Y\* /  N /  Unknown, no access (\*if yes, describe in table below)  
[i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

**Bat Roosting Features:** Contains potential bat roosting features?  
 Y\* /  N /  Unknown, no access (\*if yes, describe in table below)  
[i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities
<u>422179 4777987</u>	<u>B</u>	<u>Silver Birch</u>	<u>75</u>	<u>4</u>	<u>2</u>	<u>3-4</u>	<u>broken limbs, open 10-20ft trunk (lightning)</u>

**Stick Nests:** Contains large stick nests?  
 Y\* /  N /  Unknown, no access (\*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

**Seeps/Springs/Vernal Pools:** Contains seeps/springs/vernal pools?  
 Y\* /  N /  Unknown, no access (\*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

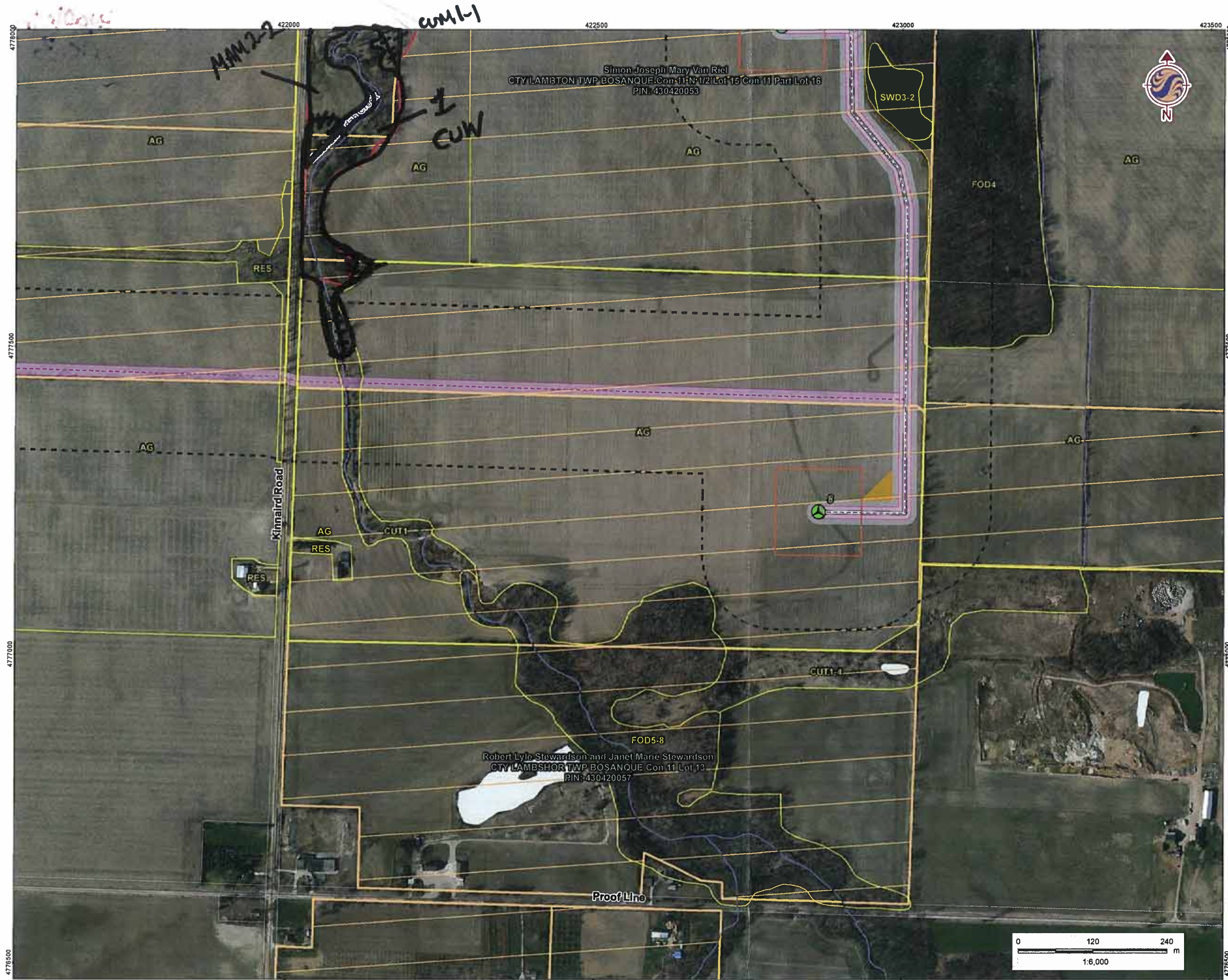
**SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)**

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scar; SI=other sign; TK=track; VO=vocalization









\* Creek area

**Legend**

- 120m Zone of Investigation
- Proposed Turbine Location
- MET Tower
- Access Road
- Transmission Line
- Underground Collector Line
- Turbine Laydown Area
- Substation
- Expressway / Highway
- Road
- Watercourse
- Constructed Drain
- Waterbody
- Municipal Boundary
- Property Boundary
- Land Status**
- Optioned Properties (Suncor)
- NextEra Properties
- ELC Status**
- ELC - Need Codes
- ELC - Complete

**DRAFT**

**Notes**

1. Coordinate System: NAD 1983 UTM Zone 17N
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Imagery Date: 2010



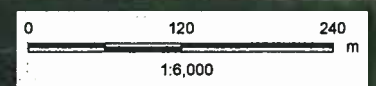
**Stantec**

July, 2012  
160960709

Client/Project  
Suncor Energy  
Cedar Point Wind Project

Figure No.  
Tile 3 of 54

Title  
**Project Infrastructure- Aquatics  
Ver- 12 June 27**





walk in  
Tile 3

July 10 2012



ELC Polygon: # \_\_\_\_\_ Assessment Type: -Visual; no access / -Walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (*indicate on map*)

**Reptile / Bat Hibernacula Features:** Contains potential reptile hibernacula features?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)  
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]  
 Contains potential bat hibernacula features?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)  
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

**Bat Roosting Features:** Contains potential bat roosting features?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)  
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

**Stick Nests:** Contains large stick nests?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)

STICK NEST(S) IDENTIFIED					
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature

**Seeps/Springs/Vernal Pools:** Contains seeps/springs/vernal pools?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

**SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)**

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scat; SI=other sign; TK=track; VO=vocalization



Stanlex Consulting Ltd.  
1-70 Southgate Drive  
Geelph, ON  
Canada N1G 4P5  
Tel: (519) 836-6050  
Fax: (519) 836-2493

### Roadside ELC, Woodland & Wildlife Habitat Assessment Form

**Stanlex**

Project Number: 160960709

Project Name: Cedar Point W.F.

Date: May 31, 2012

Field Personnel: C. Doughty

Weather Conditions:

TEMP (°C): 14 WIND: 3 CLOUD: 100% PPT: None PPT (in last 24 hrs): None

COMMUNITY DESCRIPTION & CLASSIFICATION	POLYGON:	POLYGON DESCRIPTION	
		START TIME:	END TIME:
<b>ELC</b>	<u>4-1</u>	<input type="checkbox"/> LACUSTRINE <input checked="" type="checkbox"/> RIVERINE <input checked="" type="checkbox"/> BOTTOMLAND <input type="checkbox"/> TERRACE <input type="checkbox"/> VALLEY SLOPE <input type="checkbox"/> TABLELAND <input type="checkbox"/> ROLL UPLAND <input type="checkbox"/> CLIFF	<input type="checkbox"/> TALUS <input type="checkbox"/> CREVICE / CAVE <input type="checkbox"/> ALVAR <input type="checkbox"/> ROCKLAND <input type="checkbox"/> BEACH / BAR <input type="checkbox"/> SAND DUNE <input type="checkbox"/> BLUFF
		TOPOGRAPHIC FEATURE	HISTORY
		<input type="checkbox"/> NATURAL <input type="checkbox"/> CULTURAL	<input type="checkbox"/> NATURAL <input type="checkbox"/> CULTURAL

**STAND DESCRIPTION:**

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (-> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY			<u>Shoepack hickory? green oak? Silver maple</u>
2 SUB-CANOPY			
3 UNDERSTOREY			<u>buckhorn</u>
4 GRD. LAYER			

HT CODES: 1=>25m 2=10-4HT<25m 3=2-4HT<10m 4=1-4HT<2m 5=0.5-4HT<1m 6=0.2-4HT<0.5m 7=HT<0.2m  
CVR CODES: 0=NONE 1=0%-CVR<10% 2=10%-CVR<25% 3=25%-CVR<50% 4=CVR>50% NO=not observed

STANDING SNAGS: N <10 O 10-24 L 25-50 N >50

ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT NO=Not observed

STAND MATURITY: P=PIONEER Y=YOUNG M=MID-AGE MA=MATURE O=OLD GROWTH

VEGETATION TYPE: F.H. Shoepack hickory Dec forest CODE: F0D94

COMPLEX CODE:

Evidence of Disturbance / Notes: there are in rows, plantation?

photos 40-42

LAYERS: 1=CANOPY >10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT NO=Not observed	SPECIES CODE	LAYER				DISTANCE FROM RD. 5S m >5 m	COLL.
		1	2	3	4		
TREES:	<u>Shoepack hickory</u>	<u>0</u>					
	<u>Shoepack hickory</u>	<u>A</u>					
	<u>Shoepack hickory</u>	<u>0</u>					
	<u>Silver maple</u>	<u>0</u>					
SHRUBS:	<u>buckhorn</u>		<u>0</u>				
GROUND:							

Signature: \_\_\_\_\_ (Field Personnel) Quality Control: This form is complete  & legible  Signature: \_\_\_\_\_ (Project Manager)





- Legend**
- 120m Zone of Investigation
  - Proposed Turbine Location
  - MET Tower
  - Culvert Location
  - HD Location
  - Access Road
  - Transmission Line
  - Underground Collector Line
  - Turbine Laydown Area
  - Substation
  - Expressway / Highway
  - Road
  - Watercourse
  - Constructed Drain
  - Waterbody
  - Municipal Boundary
  - Property Boundary
  - Surveyed Areas (Archeology)
- Land Status**
- Optioned Properties (Suncor)
  - Forest Lands
  - NextEra Properties
  - Optioned Properties (Eirin)

Just  
transmissi  
line

**DRAFT**

- Notes**
1. Coordinate System: NAD 1983 UTM Zone 17N
  2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011. ©Lambton County 2011.
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**Stantec**

May 2012  
160960709

Client/Project  
Suncor Energy  
Cedar Point Wind Project

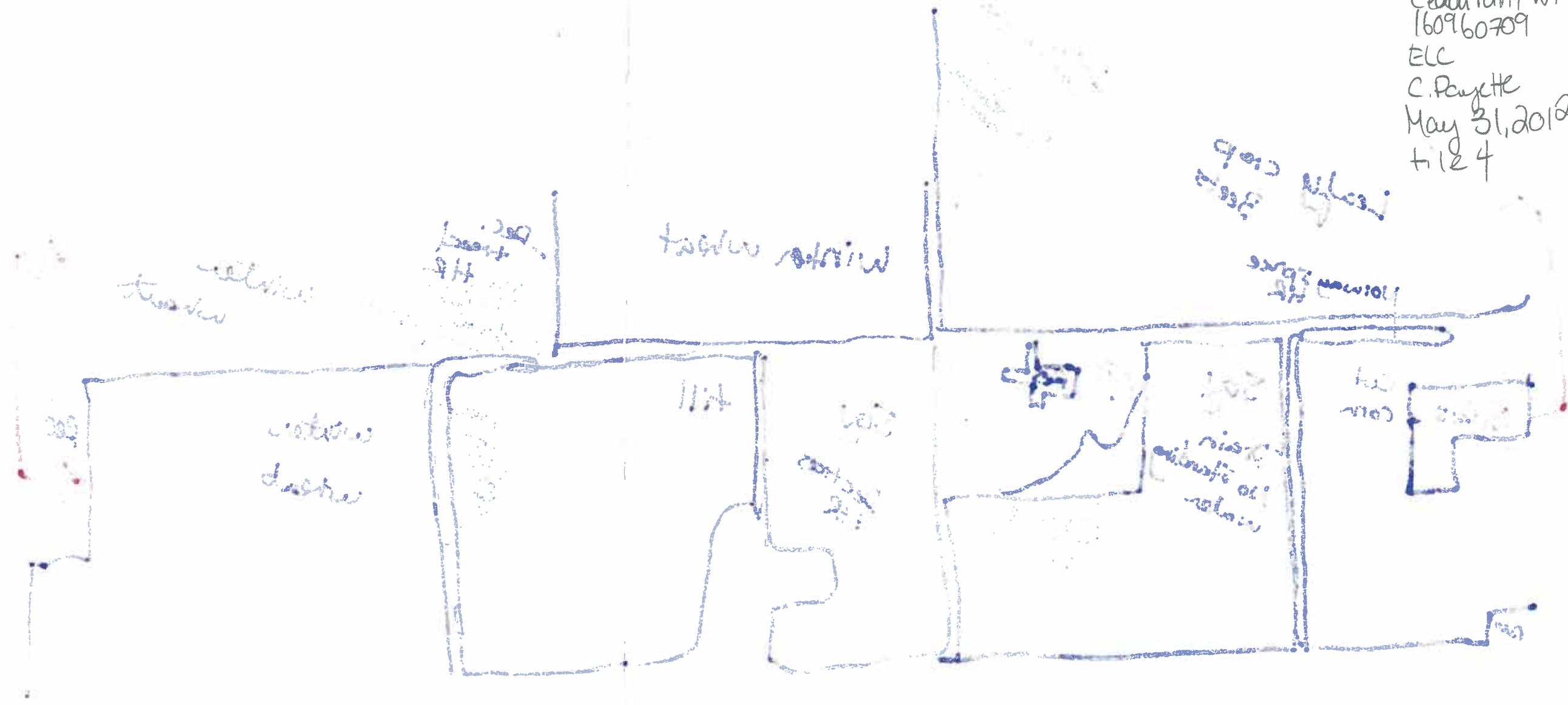
Figure No.  
Tile 4 of 54

Title  
**Project Infrastructure**  
Ver- 12 May 07



test  
document  
in

Cedar Point WF  
160960709  
ELC  
C. Payette  
May 31, 2012  
t124











Stantec Consulting Ltd.  
 1 – 70 Southgate Drive  
 Guelph, ON  
 Canada N1G 4P5  
 Tel: (519) 836-6050  
 Fax: (519) 836-2493

## Woodland & Wildlife Habitat Assessment Form

**Stantec**

Project Number: Tile 1  
 Date: Nov. 7/11

Project Name: Cedar Point  
 Field Personnel: Scott Martin

Weather Conditions:	TEMP (°C): <u>14</u>	WIND: <u>1-2</u>	CLOUD: <u>60</u>	PPT: <u>—</u>	PPT (in last 24 hrs): <u>—</u>
---------------------	-------------------------	---------------------	---------------------	------------------	-----------------------------------

ELC Polygon: # ① Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (*indicate on map*)

**Reptile / Bat Hibernacula Features:** Contains potential reptile hibernacula features?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)  
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]  
 Contains potential bat hibernacula features?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)  
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

**Bat Roosting Features:** Contains potential bat roosting features?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)  
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

**Stick Nests:** Contains large stick nests?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)

STICK NEST(S) IDENTIFIED					
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature

**Seeps/Springs/Vernal Pools:** Contains seeps/springs/vernal pools?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

**SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)**

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scat; SI=other sign; TK=track; VO=vocalization



<b>ELC</b>  Plant Species List	SITE: Tile 1
	POLYGON: ①
	DATE: Nov. 7/11
	SURVEYOR(S): SAM

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTORY 4 = GROUND (GRD.) LAYER  
 ABUNDANCE CODES: R = RARE O = OCCASSIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER				COLL.
	1	2	3	4	
Com. Buck.					
OB					
Choke Cherry					
Calico Ast.					
Germ sp.					
Grape					
Cu					
Ms					
Au					
Herb Rob?					
Veg. Straw b.					
Self Heal					
Fowl Nana					
Battlebrush					
Garlic Must					
Tall Butter					
Sm BIK Currant (det.)					
Shag bar R					
BD					
False Sol. Sack					
Prickly Gooseberry					
Bristl. BIK Currant					
Run. Straw b					
C. arct.					
OR					
Agromony					
C. communis					
Gray Dogwood					
Rub. o. cerd					

SPECIES CODE	LAYER				COLL.
	1	2	3	4	
Op. Oak					
P					
Rasp					
N. Lady Fern					
Frost Aster					
Blue Beech					
Sycamore					
Spicebush					
Wild Geranium					
Sen s. Fern					
Soft Rush					
False Nettle					
Clearweed					
Ms					
C. arct.					
Blk Alder					
ROD					
Phrag					
Tall Grod					
Jewelweed					
BSMshd					
Blk Elder					
<del>Hay</del> sedge (Grnd)					
Carlon Flower					
Zig Zag					
Be					
Xmas Fern					
R.					

3 = ~~Blk~~ M, Au, Hs, OR, 10

**ELC**  
 COMMUNITY DESCRIPTION & CLASSIFICATION: **FILE 1**  
 POLYGON: **3**  
 SURVEYOR(S): **S.A.H.**  
 DATE: **Nov. 7/11**  
 UTME: **472904**  
 START: **5:58h** END: **6:12h**  
 UTMZ: **17T** UTMN: **477701**

**POLYGON DESCRIPTION**

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
<input checked="" type="checkbox"/> TERRESTRIAL	<input type="checkbox"/> ORGANIC	<input type="checkbox"/> LACUSTRINE	<input checked="" type="checkbox"/> NATURAL	<input type="checkbox"/> PLANKTON	<input type="checkbox"/> LAKE
<input type="checkbox"/> WETLAND	<input checked="" type="checkbox"/> MINERAL SOIL	<input type="checkbox"/> RIVERINE	<input type="checkbox"/> CULTURAL	<input type="checkbox"/> SUBMERGED	<input type="checkbox"/> POND
<input type="checkbox"/> AQUATIC	<input type="checkbox"/> PARENT MIN.	<input type="checkbox"/> BOTTOMLAND		<input type="checkbox"/> FLOATING-LVD.	<input type="checkbox"/> RIVER
	<input type="checkbox"/> ACIDIC BEDRK.	<input type="checkbox"/> VALLEY SLOPE		<input type="checkbox"/> GRAMINOID	<input type="checkbox"/> STREAM
	<input type="checkbox"/> BASIC BEDRK.	<input type="checkbox"/> TABLELAND		<input type="checkbox"/> FORB	<input type="checkbox"/> MARSH
	<input type="checkbox"/> CARB. BEDRK.	<input type="checkbox"/> ROLL UPLAND		<input type="checkbox"/> BRYOPHYTE	<input type="checkbox"/> SWAMP
	<input type="checkbox"/> OPEN WATER	<input type="checkbox"/> CLIFF		<input type="checkbox"/> DECIDUOUS	<input type="checkbox"/> FEN
<input type="checkbox"/> SHALLOW WATER	<input type="checkbox"/> ALVAR	<input type="checkbox"/> TALLS		<input type="checkbox"/> CONIFEROUS	<input type="checkbox"/> BOG
<input type="checkbox"/> SURFICIAL DEP.	<input type="checkbox"/> ROCKLAND	<input type="checkbox"/> CREVICE / CAVE	<input type="checkbox"/> COVER	<input type="checkbox"/> MIXED	<input type="checkbox"/> MEADOW
<input type="checkbox"/> BEDROCK	<input type="checkbox"/> BEACH / BAR	<input type="checkbox"/> OPEN	<input type="checkbox"/> OPEN		<input type="checkbox"/> PRAIRIE
	<input type="checkbox"/> SAND DUNE	<input type="checkbox"/> SHRUB	<input type="checkbox"/> SHRUB		<input type="checkbox"/> THICKET
	<input type="checkbox"/> BLUFF	<input type="checkbox"/> TREED	<input checked="" type="checkbox"/> TREED		<input type="checkbox"/> SAVANNAH
					<input type="checkbox"/> WOODLAND
					<input type="checkbox"/> FOREST
					<input type="checkbox"/> PLANTATION

**STAND DESCRIPTION:**

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE
1 CANOPY	2	4	(>>MUCH GREATER THAN; >GREATER THAN; = ABOUT EQUAL TO)
2 SUB-CANOPY	3	3	Basswood > Sugar Maple > White Ash
3 UNDERSTOREY	4	2	Sugar Maple > White Ash > Shagbark Hickory
4 GRD. LAYER	6	3-4	Spicebush > Black Birch > Black Elder
			2-4 Zig Zag Goldenrod > Run. Strawberrybush > Herb Robert

HT CODES: 1=25m 2=10<HT<25m 3=2<HT<10m 4=1<HT<2m 5=0.2<HT<1m 6=0.2<HT<0.5m 7=HT<0.2m  
 CVR CODES: 0=NONE 1=0%<CVR<10% 2=10<CVR<25% 3=25<CVR<50% 4=CVR<80%

**STAND COMPOSITION:** **BIG MRS AVID** BA: **22**

SIZE CLASS ANALYSIS:	<10	10-24	25-50	>50
STANDING SNAGS:	0	1	1	0
DEADFALL LOGS:	0	1	1	0

ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT  
 COMM. AGE:  PIONEER  YOUNG  MID-AGE  MATURE  OLD GROWTH

**SOIL ANALYSIS:**

TEXTURE: \_\_\_\_\_ g= \_\_\_\_\_  
 MOISTURE: \_\_\_\_\_ g= \_\_\_\_\_ (cm)  
 HOMOGENEOUS / VARIABLE DEPTH TO BEDROCK: \_\_\_\_\_ (cm)

**COMMUNITY CLASSIFICATION:**

COMMUNITY CLASS: \_\_\_\_\_ CODE: **FO**  
 COMMUNITY SERIES: \_\_\_\_\_ CODE: **FOD**  
 ECOSITE: \_\_\_\_\_ CODE: **FOD5**  
 VEGETATION TYPE: \_\_\_\_\_ CODE: **FOD5-6**

INCLUSION: \_\_\_\_\_ CODE: \_\_\_\_\_  
 COMPLEX: \_\_\_\_\_ CODE: \_\_\_\_\_

Evidence of Disturbance / Notes:

**ELC**  
 COMMUNITY DESCRIPTION & CLASSIFICATION: **FILE 1**  
 POLYGON: **3**  
 SURVEYOR(S): **S.A.H.**  
 DATE: **Nov. 7/11**  
 UTME: **472904**  
 START: **5:58h** END: **6:12h**  
 UTMZ: **17T** UTMN: **477701**

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER  
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				COLL.
	1	2	3	4	
Basswood					
White Ash					
Sugar Maple					
Shagbark Hickory					
Black Elder					
Ironwood					
Pine Beech					
Spicebush					
Black Elder					
Zig Zag Goldenrod					
Run. Strawberrybush					
Herb Robert					
Beech					
Sweet Fern					
White Goldenrod					
N. Lady Fern					
Agrimony					
Carex gracile					
Blackberry					
Strawberry					

Page \_\_\_ of \_\_\_  
 Signature: \_\_\_\_\_ (Field Personnel)  
 Signature: \_\_\_\_\_ (Project Manager)

Quality Control: This form is complete  & legible .





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Fax: (519) 836-2493

## Woodland & Wildlife Habitat Assessment Form

**Stantec**

Project Number: Tile 1 - Poly 2

Project Name: Cedar Pt.

Date: Nov. 7/11

Field Personnel: S.A.M.

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>14</u>	<u>1-2</u>	<u>60</u>	<u>-</u>	<u>-</u>

ELC Polygon: # 2 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

**Reptile / Bat Hibernacula Features:** Contains potential reptile hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]  
 Contains potential bat hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

**Bat Roosting Features:** Contains potential bat roosting features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

**Stick Nests:** Contains large stick nests?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

**Seeps/Springs/Vernal Pools:** Contains seeps/springs/vernal pools?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

**SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)**

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scat; SI=other sign; TK=track; VO=vocalization









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## Woodland & Wildlife Habitat Assessment Form

**Stantec**

Project Number: Tile 2

Project Name: Cedar Point

Date: Nov. 7/11

Field Personnel: S.A.M.

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>14</u>	<u>1-2</u>	<u>70</u>	<u>—</u>	<u>—</u>

ELC Polygon: # ① Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

**Reptile / Bat Hibernacula Features:** Contains potential reptile hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]  
 Contains potential bat hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

**Bat Roosting Features:** Contains potential bat roosting features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

**Stick Nests:** Contains large stick nests?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

STICK NEST(S) IDENTIFIED					
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature

**Seeps/Springs/Vernal Pools:** Contains seeps/springs/vernal pools?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

**SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)**

BCCH - VO  
MOBO - VO  
White-tailed Deer - TK  
Grey Squirrel - OB  
Raccoon - TK

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scat; SI=other sign; TK=track; VO=vocalization











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 1 – 70 Southgate Drive  
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 Fax: (519) 836-2493

## Woodland & Wildlife Habitat Assessment Form

**Stantec**

Project Number: Cedar Pt. Tile 2

Project Name: Cedar Pt.

Date: Nov-7/11

Field Personnel: S.A.P.

<b>Weather Conditions:</b>	TEMP (°C): <u>14</u>	WIND: <u>1-2</u>	CLOUD: <u>70</u>	PPT: <u>\</u>	PPT (in last 24 hrs): <u>\</u>
----------------------------	-------------------------	---------------------	---------------------	------------------	-----------------------------------

ELC Polygon: # 2      Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

**Reptile / Bat Hibernacula Features:**      Contains potential reptile hibernacula features?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)  
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]  
 Contains potential bat hibernacula features?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)  
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Sp. Observed Using Feature

**Bat Roosting Features:**      Contains potential bat roosting features?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)  
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Sp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

**Stick Nests:**      Contains large stick nests?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Sp.	Nest Size	Photo No.	Sp. Observed Using Feature	

**Seeps/Springs/Vernal Pools:**      Contains seeps/springs/vernal pools?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Sp. Present?	Shrubs/ Logs at Edge Present?

**SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)**

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scat; SI=other sign; TK=track; VO=vocalization

**ELC** SITE: Cedar Point T1e 2 POLYGON: 3  
 SURVEYOR(S): S.A.R. DATE: 4/23/96  
 START: 10:30 h END: 1:42 h UTMZ: 17T UTMN: 4791A3

**POLYGON DESCRIPTION**

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
<input checked="" type="checkbox"/> TERRESTRIAL	<input type="checkbox"/> ORGANIC	<input type="checkbox"/> LACUSTRINE	<input checked="" type="checkbox"/> NATURAL	<input type="checkbox"/> PLANKTON	<input type="checkbox"/> LAKE
<input type="checkbox"/> WETLAND	<input type="checkbox"/> MINERAL SOIL	<input type="checkbox"/> RIVERINE	<input type="checkbox"/> CULTURAL	<input type="checkbox"/> SUBMERGED	<input type="checkbox"/> POND
<input type="checkbox"/> AQUATIC	<input type="checkbox"/> PARENT MIN.	<input type="checkbox"/> BOTTOMLAND		<input type="checkbox"/> FLOATING-LVD.	<input type="checkbox"/> RIVER
	<input type="checkbox"/> ACIDIC BEDRK.	<input type="checkbox"/> VALLEY SLOPE		<input type="checkbox"/> GRAMINOID	<input type="checkbox"/> STREAM
	<input type="checkbox"/> BASIC BEDRK.	<input type="checkbox"/> STABLELAND		<input type="checkbox"/> FORB	<input type="checkbox"/> MARSH
	<input type="checkbox"/> OPEN WATER	<input type="checkbox"/> ROLL, UPLAND		<input type="checkbox"/> BRYOPHYTE	<input type="checkbox"/> SWAMP
<input type="checkbox"/> SHALLOW WATER	<input type="checkbox"/> CARB. BEDRK.	<input type="checkbox"/> CLIFF		<input type="checkbox"/> DECIDUOUS	<input type="checkbox"/> FEN
<input type="checkbox"/> SURFICIAL DEP. BEDROCK	<input type="checkbox"/> CREVICE / CAVE	<input type="checkbox"/> TALUS	<b>COVER</b>	<input type="checkbox"/> CONIFEROUS	<input type="checkbox"/> BOG
	<input type="checkbox"/> ROCKLAND	<input type="checkbox"/> ALVAR	<input type="checkbox"/> OPEN	<input type="checkbox"/> MEADOW	<input type="checkbox"/> BARREN
	<input type="checkbox"/> BEACH / BAR	<input type="checkbox"/> ROCKLAND	<input type="checkbox"/> SHRUB	<input type="checkbox"/> PRAIRIE	<input type="checkbox"/> MEADOW
	<input type="checkbox"/> BLUFF	<input type="checkbox"/> BEACH / BAR	<input type="checkbox"/> TREED	<input type="checkbox"/> THICKET	<input type="checkbox"/> SAVANNAH
		<input type="checkbox"/> BLUFF		<input type="checkbox"/> SAVANNAH	<input type="checkbox"/> WOODLAND
				<input type="checkbox"/> FOREST	<input type="checkbox"/> PLANTATION

**STAND DESCRIPTION:**

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	2	4	Sugar Maple > Beech > Basswood > White Ash
2 SUB-CANOPY	3	3	Sugar Maple > White Ash > Beech
3 UNDERSTOREY	5	2	Rib. emer. > BIR Rasp > Calico Aster
4 GRD. LAYER	6	3	Zig Zag Goldenrod > Blue Cowsh > Arans sp.

HT CODES: 1=>25m 2=10-HT<25m 3=2-HT<10m 4=1-HT<2m 5=0.5-HT<1m 6=0.2-HT<0.5m 7=HT<0.2m  
 CVR CODES: 0=NONE 1=0%-CVR<10% 2=10%-CVR<25% 3=25%-CVR<50% 4=CVR>50%

**STAND COMPOSITION:** Sugar Maple 55 Beech 35 BA: 23

SIZE CLASS ANALYSIS:	0	<10	A	10-24	A	25-50	0	>50
STANDING SNAGS:	0	<10	0	10-24	A	25-50	R	>50
DEADFALL/LOGS:	0	<10	0	10-24	R	25-50	R	>50

ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT  
 COMM. AGE: PIONEER YOUNG MID-AGE MATURE OLD GROWTH

**SOIL ANALYSIS:**

TEXTURE:	DEPTH TO MOTTLES/GLEY	gF	G=
MOISTURE:	DEPTH OF ORGANICS:		N/A
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK:		

**COMMUNITY CLASSIFICATION:**

COMMUNITY CLASS:	CODE:	FO
COMMUNITY SERIES:	CODE:	FO0
ECOSITE:	CODE:	FO05
VEGETATION TYPE: Dry-fresh Sugar Maple - Beech	CODE:	FO05-2
INCLUSION	CODE:	
COMPLEX	CODE:	

Evidence of Disturbance / Notes:

**ELC** SITE: POLYGON:  
 COMMUNITY DESCRIPTION & CLASSIFICATION SURVEYOR(S):  
 DATE:

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER  
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				SPECIES CODE	LAYER				COLL.
	1	2	3	4		1	2	3	4	
see attached										

Page \_\_\_ of \_\_\_  
 Signature: \_\_\_\_\_ (Field Personnel)  
 Signature: \_\_\_\_\_ (Project Manager)  
 Quality Control: This form is complete  & legible







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Guelph, ON  
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Fax: (519) 836-2493

**Stantec**

## Woodland & Wildlife Habitat Assessment Form

Project Number: Tike 2

Project Name: Cedar Pt.

Date: Nov. 7/11

Field Personnel: S.A.M.

<b>Weather Conditions:</b>	TEMP (°C): <u>14</u>	WIND: <u>1-2</u>	CLOUD: <u>70</u>	PPT: <u>-</u>	PPT (in last 24 hrs): <u>-</u>
----------------------------	-------------------------	---------------------	---------------------	------------------	-----------------------------------

ELC Polygon: # 3      Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

**Reptile / Bat Hibernacula Features:**      Contains potential reptile hibernacula features?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)  
*[i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]*  
 Contains potential bat hibernacula features?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)  
*[i.e. karst topography, abandoned mines or caves]*

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

**Bat Roosting Features:**      Contains potential bat roosting features?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)  
*[i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]*

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

**Stick Nests:**      Contains large stick nests?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

**Seeps/Springs/Vernal Pools:**      Contains seeps/springs/vernal pools?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

**SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)**

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scat; SI=other sign; TK=track; VO=vocalization



<b>ELC</b>  Plant Species List	SITE: Tile 2
	POLYGON: (4) + 5 + 6 (back)
	DATE: Nov. 8/11
	SURVEYOR(S): SAM

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTORY 4 = GROUND (GRD.) LAYER  
 ABUNDANCE CODES: R = RARE O = OCCASSIONAL A = ABUNDANT D = DOMINANT

SPECIES CODE	LAYER				COLL.
	1	2	3	4	
Geum					
Gray Dog wd.					
Strawb.				D	
Hs					
Ev	D				
Nardelion					
Av	D				
calico			D		
Hs	D				
C. det.					
Rib. amer.					
OB					
PI				D	
Can Buck Thorn		A			
Fowl Mania					
Moon seed					
Rasp (PIK)					
Bd	O				
Nannyberry			D		
Geranium					
Virg. Waterleaf					
Bluebeech		D	D		
C. intum.					
Dwarf Rasp					
Fringe Loosestrife					
Burthorn sp		A			
ROD					
Com. sp. (Veronica officinalis)					

SPECIES CODE	LAYER				COLL.
	1	2	3	4	
Run Strawb.				D	
Ench Ntshd.					
Starry False Sol Seal					
Zig Zag					
Herb Rasp					
Sm Glod				D	
Bottlebrush	E -	423063			
	N -	4777856			
<del>...</del>					
5) Prickly Goose					
Dwarf Rasp					
Be		D	A	A	
Bd	E -	423063			
Id	N -	4777856			
MH					
Geum					
Hs					
Calico					Leek
Zig Zag					
Xmas Fern					
Av					
Geranium					
Agrimony					
Run Strawb					
False Sol. Seal					
Carion Flower					
Dwarf Arrowwood					
Jac K.					

F-M Hs Ev Av

wa Frog  
Dow O  
BCCM  
Craw  
Keepers

D-F Be MH Bal

6 over

m.s.l









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## Woodland & Wildlife Habitat Assessment Form

**Stantec**

Project Number: Tik 2

Project Name: Cedar Pt.

Date: Nov. 8 / 11

Field Personnel: S-A.M.

<b>Weather Conditions:</b>	TEMP (°C): <u>16</u>	WIND: <u>2</u>	CLOUD: <u>70</u>	PPT: <u>  </u>	PPT (in last 24 hrs): <u>  </u>
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ELC Polygon: # 4    Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

**Reptile / Bat Hibernacula Features:**    Contains potential reptile hibernacula features?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)  
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]

Contains potential bat hibernacula features?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)  
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

**Bat Roosting Features:**    Contains potential bat roosting features?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)  
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

**Stick Nests:**    Contains large stick nests?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

**Seeps/Springs/Vernal Pools:**    Contains seeps/springs/vernal pools?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

**SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)**

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scat; SI=other sign; TK=track; VO=vocalization

Swamp

E- 423003  
N- 477942

sm Grad  
Foul Manua  
Core x Sp  
Soft Bush

\*\* Ms  
OB  
PI

C. gracil.  
c. intum  
C. graf.  
Viola sp.  
Gemm Sp.  
Call co  
Corn Buck R.

\*\* Nany  
AIR Rasp.

\* Eu  
Downy Arrow-wood

Equisetum  
Ribes ~~(S. A. B.)~~  
(R. americanum)

N- 477942  
E- 423003

~~Handwritten scribble~~









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## Woodland & Wildlife Habitat Assessment Form

**Stantec**

Project Number: Tile 2

Project Name: Cedar Pt.

Date: Nov 8/11

Field Personnel: S. Apr.

Weather Conditions:	TEMP (°C): <u>16</u>	WIND: <u>2</u>	CLOUD: <u>70</u>	PPT: <u>—</u>	PPT (in last 24 hrs): <u>—</u>
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ELC Polygon: # 5 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

**Reptile / Bat Hibernacula Features:** Contains potential reptile hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]  
 Contains potential bat hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

**Bat Roosting Features:** Contains potential bat roosting features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

**Stick Nests:** Contains large stick nests?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

**Seeps/Springs/Vernal Pools:** Contains seeps/springs/vernal pools?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

**SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)**

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scat; SI=other sign; TK=track; VO=vocalization









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## Woodland & Wildlife Habitat Assessment Form

**Stantec**

Project Number: T1R2

Project Name: Cedar Pt.

Date: Nov. 8/11

Field Personnel: S.A.M.

Weather Conditions:	TEMP (°C): <u>16</u>	WIND: <u>2</u>	CLOUD: <u>70</u>	PPT: <u>—</u>	PPT (in last 24 hrs): <u>—</u>
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ELC Polygon: # 6 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

**Reptile / Bat Hibernacula Features:** Contains potential reptile hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]  
 Contains potential bat hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Sp. Observed Using Feature

**Bat Roosting Features:** Contains potential bat roosting features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Sp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

**Stick Nests:** Contains large stick nests?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Sp.	Nest Size	Photo No.	Sp. Observed Using Feature	

**Seeps/Springs/Vernal Pools:** Contains seeps/springs/vernal pools?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Sp. Present?	Shrubs/ Logs at Edge Present?
	<u>Shallow Swamp</u>	<u>20m x 40m</u>	<u>?</u>		<u>?</u>	<u>yes</u>

**SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)**

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scat; SI=other sign; TK=track; VO=vocalization











3-1 Riparian

18° 70% cloud B: 2

11111  
113003



- A- Apple
- D- Hawthorn
- Com. Buck
- Sm. Bromel.
- Reesberry
- Rob
- WE Aster
- Tall Grass
- Teasel
- Wild Mint

- O- An
- Tall Nettle
- wt. Verbena
- Com. Thistle
- Milkweed
- Burdock
- Frost Aster

E-422095  
N-4777347

- Garlic Must.
- Calli co
- Rose
- Giant Ragweed
- OR
- Catnip
- Black willow
- G-L Grass
- Sour Cherry
- Cottonwood

PRINTING CODES: 1 = BUREAU 2 = DISTRICT 3 = COUNTY 4 = DIVISION 5 = OFFICE 6 = FIELD 7 = LABORATORY 8 = OTHER 9 = UNKNOWN

SEARCHED:  INDEXED:

SERIALIZED:  FILED:

APR 11 1964

FBI - MEMPHIS

3-8 / 10-3 / 31-47

FILE







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## Woodland & Wildlife Habitat Assessment Form

**Stantec**

Project Number: Tile 3

Project Name: Cedar Pt.

Date: Nov-8/11

Field Personnel: S.A.M.

<b>Weather Conditions:</b>	TEMP (°C): <u>18</u>	WIND: <u>2</u>	CLOUD: <u>70</u>	PPT: <u>—</u>	PPT (in last 24 hrs): <u>—</u>
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ELC Polygon: # (2) Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

**Reptile / Bat Hibernacula Features:** Contains potential reptile hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]  
 Contains potential bat hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

**Bat Roosting Features:** Contains potential bat roosting features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

**Stick Nests:** Contains large stick nests?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

**Seeps/Springs/Vernal Pools:** Contains seeps/springs/vernal pools?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

**SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)**

Spring Peeper - VO

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scat; SI=other sign; TK=track; VO=vocalization



**ELC**  
 COMMUNITY DESCRIPTION & CLASSIFICATION

SITE: Cedar Pt. - Tik3  
 POLYGON: 3

SURVEYOR(S): S.A.M.  
 DATE: Nov. 8/11  
 UTMZ: 17T  
 UTMZ: 4777117

START: 10:51h  
 END: 11:43h  
 UTMZ: 423062  
 UTMZ: 4777117

**POLYGON DESCRIPTION**

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
<input type="checkbox"/> TERRESTRIAL <input type="checkbox"/> WETLAND <input type="checkbox"/> AQUATIC	<input type="checkbox"/> ORGANIC <input checked="" type="checkbox"/> MINERAL SOIL <input type="checkbox"/> PARENT MIN. <input type="checkbox"/> ACIDIC BEDRK. <input type="checkbox"/> BASIC BEDRK. <input type="checkbox"/> CARB. BEDRK.	<input type="checkbox"/> LACUSTRINE <input type="checkbox"/> RIVERINE <input type="checkbox"/> BOTTOMLAND <input type="checkbox"/> TERRACE <input type="checkbox"/> VALLEY SLOPE <input type="checkbox"/> TABLELAND <input type="checkbox"/> ROLL. UPLAND <input type="checkbox"/> CLIFF <input type="checkbox"/> TALLUS <input type="checkbox"/> GREVICE / CAVE <input type="checkbox"/> ALVAR <input type="checkbox"/> ROCKLAND <input type="checkbox"/> BEACH / BAR <input type="checkbox"/> SAND DUNE <input type="checkbox"/> BLUFF	<input type="checkbox"/> NATURAL <input checked="" type="checkbox"/> CULTURAL  <b>COVER</b> <input type="checkbox"/> OPEN <input type="checkbox"/> SHRUB <input type="checkbox"/> TREED	<input type="checkbox"/> PLANKTON <input type="checkbox"/> SUBMERGED <input type="checkbox"/> FLOATING-LVD. <input type="checkbox"/> GRAMINOID <input type="checkbox"/> STREAM <input type="checkbox"/> MARSH <input type="checkbox"/> SWAMP <input type="checkbox"/> LICHEN <input checked="" type="checkbox"/> BRYOPHYTE <input type="checkbox"/> DECIDUOUS <input type="checkbox"/> CONIFEROUS <input type="checkbox"/> MIXED	<input type="checkbox"/> LAKE <input type="checkbox"/> POND <input type="checkbox"/> RIVER <input type="checkbox"/> STREAM <input type="checkbox"/> MARSH <input type="checkbox"/> SWAMP <input type="checkbox"/> BOG <input type="checkbox"/> BARREN <input type="checkbox"/> MEADOW <input type="checkbox"/> PRAIRIE <input checked="" type="checkbox"/> THICKET <input type="checkbox"/> SAVANNAH <input type="checkbox"/> WOODLAND <input type="checkbox"/> FOREST <input type="checkbox"/> PLANTATION

**STAND DESCRIPTION:**

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (-> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	3	1	White Ash
2 SUB-CANOPY	4	4	Gray Dogwood
3 UNDERSTOREY	4-5	4	Tall Goldenrod > Agrimonia > Black-eyed Susan
4 GRD. LAYER	7	3	Strawberry > Dandelion spicata > Grass curca

HT CODES: 1=>25m 2=10-HT<25m 3=2-HT<10m 4=1-HT<2m 5=0.5-HT<1m 6=0.2-HT<0.5m 7=HT<0.2m  
 CVR CODES: 0=NONE 1=0%<CVR<10% 2=10<CVR<25% 3=25<CVR<50% 4=50<CVR<80%

**STAND COMPOSITION:** N/A

**SIZE CLASS ANALYSIS:**

<10	10 - 24	25 - 50	>50
-----	---------	---------	-----

**STANDING SNAGS:** <10 10 - 24 25 - 50 >50

**DEADFALL LOGS:** <10 10 - 24 25 - 50 >50

**ABUNDANCE CODES:** N=NONE R=RARE O=OCCASIONAL A=ABUNDANT

**COMM. AGE:**  PIONEER  YOUNG  MID-AGE  MATURE  OLD GROWTH

**SOIL ANALYSIS:**

**TEXTURE:** DEPTH TO MOTTLES/GLEY g=

**MOISTURE:** DEPTH OF ORGANICS: g=

**HOMOGENEOUS / VARIABLE:** DEPTH TO BEDROCK: g=

**COMMUNITY CLASSIFICATION:**

COMMUNITY CLASS: CODE: C4

COMMUNITY SERIES: CODE: CUT

ECOSITE: CODE: CUT1

VEGETATION TYPE: Gray Dogwood Cultural Thicket Type CODE: CUT1-4

INCLUSION CODE: /

COMPLEX CODE: /

Evidence of Disturbance / Notes:

**ELC**  
 COMMUNITY DESCRIPTION & CLASSIFICATION

SITE: POLYGON:

DATE: SURVEYOR(S):

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER  
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				COLL.
	1	2	3	4	
gpl					
Atto...					

Page \_\_\_ of \_\_\_

Quality Control: This form is complete  & legible

Signature: \_\_\_\_\_ (Field Personnel)

Signature: \_\_\_\_\_ (Project Manager)





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## Woodland & Wildlife Habitat Assessment Form

**Stantec**

Project Number: Tik 3

Project Name: Cedar Pt.

Date: Nov. 8/11

Field Personnel: S.A.M.

Weather Conditions:	TEMP (°C): <u>18</u>	WIND: <u>2</u>	CLOUD: <u>70</u>	PPT: <u>-</u>	PPT (in last 24 hrs): <u>-</u>
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ELC Polygon: # 3 Assessment Type: -Visual; roadside, no access -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire -Partial, walk through polygon (indicate on map)

**Reptile / Bat Hibernacula Features:** Contains potential reptile hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]  
 Contains potential bat hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

**Bat Roosting Features:** Contains potential bat roosting features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

**Stick Nests:** Contains large stick nests?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

**Seeps/Springs/Vernal Pools:** Contains seeps/springs/vernal pools?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED							
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?	

**SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)**

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scat; SI=other sign; TK=track; VO=vocalization



<b>ELC</b>  Plant Species List	SITE: Tile 4
	POLYGON: 1, 2, 3 (2 on back)
	DATE: Nov. 8/11 1209h → 1302h
	SURVEYOR(S): SAM

LAYERS: 1 = CANOPY 2 = SUB-CANOPY 3 = UNDERSTORY 4 = GROUND (GRD.) LAYER  
 ABUNDANCE CODES: R = RARE O = OCCASSIONAL A = ABUNDANT D = DOMINANT

①  
↓

SPECIES CODE	LAYER				COLL.
	1	2	3	4	
Hawth. spp					
Red Cedar					
wt Spruce					
Eu					
Aw					
Ms					
ROB					
Gray Dogwood					
Nam y					
Agromony					
straw b.					
Panicled Aster					
Hop Sedge					
Reed Canary					
Sel Pterid					
Glyc. stri.					
Calico aster					
C. gracil.					
Gelum					
Rib. amer. <del>          </del>					
strawb					
Mh					
Com. Back.					
AG					
HS					
BD					
Elecompne					
N/E Aster					

Woodcock  
 Gray Dogwood Thicket  
 Eu Mh  
 Hawth Thicket  
 OB/MS/Eu Woodland  
 Complexes

③  
↓

SPECIES CODE	LAYER				COLL.
	1	2	3	4	
Alfalfa					
OB					
Mh					
Bd					Stone Pile
straw b.					E-420689
Gelum					N-4777636
Virg. Creeper					Photo #103279
Calico					
Or					
Pj					
Aw					
Eu					
C. Crist.					Zig Zag
Obblack.					Sans fern
Grape					
ROB					
Pj					Young
Geranium					
Frost Aster					
Reed Canary					
Ribes grisea					
Sm Grd					
HS					
Op					
Be					
Moan seed					
Gray Dogwood					

③

②  
over

Bd/Or/Mh ③  
 Clay Loam { 103280-286  
 E-420623 wood frog  
 N-4777608 Gray squirrel





2

Or  
ComBuck  
Bw  
Grey Bogus  
Aw  
Bd  
Ob  
Hawth. sp  
Callco  
C. arcti  
C. Int.  
Gamm  
Nanny  
Be  
Hs  
Id

Ribes amer.  
False Sol seal  
Run. Strawb.  
strawb  
zig zag  
Agrimony  
BIR Rasp.  
Virg. Creeper

Stone pile

E-421141  
N-4777453

photos 103293, 294

Bd / Or / Be









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**Stantec**

## Woodland & Wildlife Habitat Assessment Form

Project Number: T1R4

Project Name: Cedar Pt.

Date: Nov. 8/11

Field Personnel: S.A.M.

<b>Weather Conditions:</b>	TEMP (°C): <u>20</u>	WIND: <u>2</u>	CLOUD: <u>60-70</u>	PPT: <u>—</u>	PPT (in last 24 hrs): <u>—</u>
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ELC Polygon: # (2) Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

**Reptile / Bat Hibernacula Features:** Contains potential reptile hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]  
 Contains potential bat hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature
<u>421141/4777453</u>	<u>rock pile</u>	<u>103213294</u>	<u>n/a</u>

**Bat Roosting Features:** Contains potential bat roosting features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

**Stick Nests:** Contains large stick nests?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

**Seeps/Springs/Vernal Pools:** Contains seeps/springs/vernal pools?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

**SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)**

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scat; SI=other sign; TK=track; VO=vocalization









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## Woodland & Wildlife Habitat Assessment Form

**Stantec**

Project Number: TR 4

Project Name: Cedar Pt.

Date: Nov. 8/11

Field Personnel: S.A.M.

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>20</u>	<u>2</u>	<u>60-70</u>	<u>-</u>	<u>-</u>

ELC Polygon: # (3) Assessment Type: -Visual; roadside, no access -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

**Reptile / Bat Hibernacula Features:** Contains potential reptile hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]  
 Contains potential bat hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature
<u>420689/4777636</u>	<u>Rock pile</u>	<u>103279</u>	<u>n/a</u>

**Bat Roosting Features:** Contains potential bat roosting features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

**Stick Nests:** Contains large stick nests?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

**Seeps/Springs/Vernal Pools:** Contains seeps/springs/vernal pools?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

**SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)**

Wood Frog - OB  
Gray Squirrel - OB  
SOSP - VO  
Dowd - VO

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scat; SI=other sign; TK=track; VO=vocalization

















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## Woodland & Wildlife Habitat Assessment Form

**Stantec**

Project Number: Tik #5

Project Name: Cedar Pt.

Date: Nov. 9/11

Field Personnel: S.A.M.

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>15</u>	<u>1-2</u>	<u>60-70</u>	<u>-</u>	<u>-</u>

ELC Polygon: # 1 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

**Reptile / Bat Hibernacula Features:** Contains potential reptile hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]  
 Contains potential bat hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

**Bat Roosting Features:** Contains potential bat roosting features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

**Stick Nests:** Contains large stick nests?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

**Seeps/Springs/Vernal Pools:** Contains seeps/springs/vernal pools?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

**SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)**

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scat; SI=other sign; TK=track; VO=vocalization









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## Woodland & Wildlife Habitat Assessment Form

**Stantec**

Project Number: File 5

Project Name: Cedar Pt.

Date: Nov. 9/11

Field Personnel: S.A.M.

Weather Conditions:	TEMP (°C): <u>15</u>	WIND: <u>1</u>	CLOUD: <u>70</u>	PPT: <u>-</u>	PPT (in last 24 hrs): <u>-</u>
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ELC Polygon: # 20 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (*indicate on map*)

**Reptile / Bat Hibernacula Features:** Contains potential reptile hibernacula features?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)  
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]  
 Contains potential bat hibernacula features?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)  
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

**Bat Roosting Features:** Contains potential bat roosting features?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)  
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

**Stick Nests:** Contains large stick nests?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

**Seeps/Springs/Vernal Pools:** Contains seeps/springs/vernal pools?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED							
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?	

**SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)**

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scat; SI=other sign; TK=track; VO=vocalization









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## Woodland & Wildlife Habitat Assessment Form

**Stantec**

Project Number: Tile 5

Project Name: Cedar Pt.

Date: Nov. 9/11

Field Personnel: S.A.M.

Weather Conditions:	TEMP (°C): <u>15</u>	WIND: <u>1</u>	CLOUD: <u>70</u>	PPT: <u>-</u>	PPT (in last 24 hrs): <u>-</u>
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ELC Polygon: # 3 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

**Reptile / Bat Hibernacula Features:** Contains potential reptile hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]  
 Contains potential bat hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

**Bat Roosting Features:** Contains potential bat roosting features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

**Stick Nests:** Contains large stick nests?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

**Seeps/Springs/Vernal Pools:** Contains seeps/springs/vernal pools?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

**SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)**

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scat; SI=other sign; TK=track; VO=vocalization



**ELC** SITE: Cedar Pt. Tiles 4 POLYGON: 4  
 COMMUNITY DESCRIPTION & CLASSIFICATION: 48802 UTM: 48802  
 SURVEYOR(S): S.A.M. DATE: Nov. 9/11 UTMZ: 177  
 START: 0929h END: 0954h UTM: 471523

**POLYGON DESCRIPTION**

<input type="checkbox"/> TERRESTRIAL	<input type="checkbox"/> ORGANIC	<input type="checkbox"/> LACUSTRINE	<input type="checkbox"/> NATURAL	<input type="checkbox"/> PLANKTON	<input type="checkbox"/> LAKE
<input type="checkbox"/> WETLAND	<input checked="" type="checkbox"/> MINERAL SOIL	<input type="checkbox"/> RIVERINE	<input type="checkbox"/> CULTURAL	<input type="checkbox"/> SUBMERGED	<input type="checkbox"/> POND
<input type="checkbox"/> AQUATIC	<input type="checkbox"/> PARENT MIN.	<input type="checkbox"/> BOTTOMLAND		<input type="checkbox"/> FLOATING-LVD.	<input type="checkbox"/> RIVER
	<input type="checkbox"/> ACIDIC BEDR.	<input type="checkbox"/> TERRACE		<input type="checkbox"/> GRAMINOID	<input type="checkbox"/> STREAM
	<input type="checkbox"/> BASIC BEDR.	<input type="checkbox"/> VALLEY SLOPE		<input type="checkbox"/> FORB	<input type="checkbox"/> MARSH
	<input type="checkbox"/> OPEN WATER	<input type="checkbox"/> TABLELAND		<input type="checkbox"/> BRYOPHYTE	<input type="checkbox"/> SWAMP
<input type="checkbox"/> SHALLOW WATER	<input type="checkbox"/> ALVAR	<input type="checkbox"/> ROLL. UPLAND		<input type="checkbox"/> LICHEN	<input type="checkbox"/> FEN
<input type="checkbox"/> SURFICIAL DEP.	<input type="checkbox"/> ROCKLAND	<input type="checkbox"/> CLIFF		<input checked="" type="checkbox"/> DECIDUOUS	<input type="checkbox"/> BOG
<input type="checkbox"/> BEDROCK	<input type="checkbox"/> BEACH / BAR	<input type="checkbox"/> TALUS	<input type="checkbox"/> COVER	<input type="checkbox"/> CONIFEROUS	<input type="checkbox"/> BARREN
	<input type="checkbox"/> SAND DUNE	<input type="checkbox"/> CREVICE / CAVE	<input type="checkbox"/> OPEN	<input type="checkbox"/> MIXED	<input type="checkbox"/> MEADOW
	<input type="checkbox"/> BLUFF	<input type="checkbox"/> SHRUB	<input type="checkbox"/> PRAIRIE		<input type="checkbox"/> THICKET
		<input checked="" type="checkbox"/> TREE	<input type="checkbox"/> SAVANNAH		<input type="checkbox"/> WOODLAND
			<input type="checkbox"/> FOREST		<input checked="" type="checkbox"/> PLANTATION

**STAND DESCRIPTION:**

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	2-3	3	White Elm > White Ash > Basswood
2 SUB-CANOPY	4	3	Gray Dogwood > White Ash > Nannyberry
3 UNDERSTOREY	5	2	Ribes americ. > Fowl Manna > Oxyc. actata
4 GRD. LAYER	6-7	3	Gemsp > Poison Ivy > Self Heal

HT CODES: 1=25m 2=10<HT<25m 3=2<HT<10m 4=1<HT<2m 5=0.5<HT<1m 6=0.2<HT<0.5m 7=HT<0.2m  
 CVR CODES: 0=NONE 1=0%-CVR<10% 2=10<CVR<25% 3=25<CVR<50% 4=50<CVR<60%

**STAND COMPOSITION:**

SIZE CLASS ANALYSIS:	0	<10	A	10-24	A	25-50	N	>50
STANDING SNAGS:	0	<10	R	10-24	R	25-50	M	>50
DEADFALL/LOGS:	A	<10	0	10-24	0	25-50	M	>50

ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT  
 COMM. AGE: PIONEER YOUNG MID-AGE MATURE OLD GROWTH

**SOIL ANALYSIS:**

TEXTURE: CL	DEPTH TO MOTTLES/GLEY	g= 47	G= 7120
MOISTURE: 5	DEPTH OF ORGANICS:	6	(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK:	>120	(cm)

**COMMUNITY CLASSIFICATION:**

COMMUNITY CLASS:	CODE: FO
COMMUNITY SERIES:	CODE: F00
ECOSITE:	CODE: F0D7
VEGETATION TYPE: Fresh-Point Lowland white Elm Deciduous Forest	CODE: F0D7-1
INCLUSION	CODE: /
COMPLEX	CODE: /

Evidence of Disturbance / Notes:

**ELC** SITE: Cedar Point - Tiles  
 COMMUNITY DESCRIPTION & CLASSIFICATION: 48802 UTM: 48802  
 SURVEYOR(S): S.A.M. DATE: Nov. 9/11 UTMZ: 177  
 START: 0929h END: 0954h UTM: 471523

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER  
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				SPECIES CODE	LAYER				COLL.
	1	2	3	4		1	2	3	4	
White Elm	D									
White Ash	A									
Basswood	O									
Bur Oak	O									
Shagbark Hickory	O									
Sugar Maple	R									
Red Rasp.										
Calliope Aster										
Oxyc. actata										
Nannyberry										
Fowl Manna										
N. Ladyfern										
Athyrium										
Grape										
Ran. Strambus										
Self Heal										
Ribon Ivy										
Gemsp										
Ribes american.										
Gray Dogwood										

Quality Control: This form is complete  & legible   
 Signature: [Signature] (Field Personnel)  
 Signature: [Signature] (Project Manager)





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## Woodland & Wildlife Habitat Assessment Form

**Stantec**

Project Number: Tile 5

Project Name: Cedar Pt.

Date: Nov. 9/11

Field Personnel: S.A.M.

<b>Weather Conditions:</b>	TEMP (°C): <u>15</u>	WIND: <u>1</u>	CLOUD: <u>70</u>	PPT: <u>-</u>	PPT (in last 24 hrs): <u>-</u>
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ELC Polygon: # 4      Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

**Reptile / Bat Hibernacula Features:**      Contains potential reptile hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]  
 Contains potential bat hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

**Bat Roosting Features:**      Contains potential bat roosting features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

**Stick Nests:**      Contains large stick nests?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

**Seeps/Springs/Vernal Pools:**      Contains seeps/springs/vernal pools?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

**SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)**

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scat; SI=other sign; TK=track; VO=vocalization









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## Woodland & Wildlife Habitat Assessment Form

**Stantec**

Project Number: Tile 5  
 Date: Nov. 9/11

Project Name: Cedar Pt.  
 Field Personnel: S.A.M.

Weather Conditions:	TEMP (°C): <u>15</u>	WIND: <u>1</u>	CLOUD: <u>70</u>	PPT: <u>-</u>	PPT (in last 24 hrs): <u>-</u>
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ELC Polygon: # 5 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

**Reptile / Bat Hibernacula Features:** Contains potential reptile hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]  
 Contains potential bat hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

**Bat Roosting Features:** Contains potential bat roosting features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

**Stick Nests:** Contains large stick nests?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

**Seeps/Springs/Vernal Pools:** Contains seeps/springs/vernal pools?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

**SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)**

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scat; SI=other sign; TK=track; VO=vocalization









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## Woodland & Wildlife Habitat Assessment Form

**Stantec**

Project Number: Tile 6

Project Name: Cedar Pt.

Date: Nov. 9/11

Field Personnel: S.A.M.

<b>Weather Conditions:</b>	TEMP (°C): <u>15</u>	WIND: <u>1</u>	CLOUD: <u>70</u>	PPT: <u>\</u>	PPT (in last 24 hrs): <u>\</u>
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ELC Polygon: # 6      Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

**Reptile / Bat Hibernacula Features:**      Contains potential reptile hibernacula features?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)  
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]  
 Contains potential bat hibernacula features?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)  
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

**Bat Roosting Features:**      Contains potential bat roosting features?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)  
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

**Stick Nests:**      Contains large stick nests?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

**Seeps/Springs/Vernal Pools:**      Contains seeps/springs/vernal pools?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

**SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)**

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scat; SI=other sign; TK=track; VO=vocalization













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**Stantec**

## Woodland & Wildlife Habitat Assessment Form

Project Number: T1126

Project Name: Cedar Pt.

Date: Nov. 8/11

Field Personnel: S.A.M.

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>18</u>	<u>1</u>	<u>60</u>	<u>—</u>	<u>—</u>

ELC Polygon: # ① Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

**Reptile / Bat Hibernacula Features:** Contains potential reptile hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]  
 Contains potential bat hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

**Bat Roosting Features:** Contains potential bat roosting features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

**Stick Nests:** Contains large stick nests?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

**Seeps/Springs/Vernal Pools:** Contains seeps/springs/vernal pools?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

**SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)**

Raccoon - TK  
white-tailed Deer - TK

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scat; SI=other sign; TK=track; VO=vocalization











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## Woodland & Wildlife Habitat Assessment Form

**Stantec**

Project Number: Tile 6  
 Date: Nov. 8/11

Project Name: Cedar Pt.  
 Field Personnel: S.A.M.

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>18</u>	<u>1</u>	<u>60</u>	<u>✓</u>	<u>✓</u>

ELC Polygon: # 2 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

**Reptile / Bat Hibernacula Features:** Contains potential reptile hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]  
 Contains potential bat hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

**Bat Roosting Features:** Contains potential bat roosting features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

**Stick Nests:** Contains large stick nests?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

**Seeps/Springs/Vernal Pools:** Contains seeps/springs/vernal pools?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?
	<u>vernal pools</u>	<u>3m +</u>	<u>?</u>		<u>?</u>	<u>?</u>

**SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)**

Spring Peeper - VO  
Leopard Frog - VO  
W-T Deer - TK  
Gray Squirrel - OB  
Wood Frog - OB  
Amer. Woodcock - OB

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scat; SI=other sign; TK=track; VO=vocalization





**Legend**

- 120m Zone of Investigation
- Proposed Turbine Location
- MET Tower
- Access Road
- Transmission Line
- Underground Collector Line
- Turbine Laydown Area
- Substation
- Expressway / Highway
- Road
- Watercourse
- Constructed Drain
- Waterbody
- Municipal Boundary
- Property Boundary
- Land Status**
- Optioned Properties (Suncor)
- NextEra Properties
- ELC Status**
- ELC - Need Codes
- ELC - Complete

\* Ag type  
\* Redwood lots

**DRAFT**

**Notes**

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011. ©Lambton County 2011.
3. Imagery Source- Suncor Energy Includes Material © 2011 of the Queens printer for Ontario. All rights reserved. Imagery Date: 2010



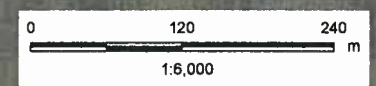
**Stantec**

July, 2012  
160960709

Client/Project  
Suncor Energy  
Cedar Point Wind Project

Figure No.  
Tile 4 of 54

Title  
**Project Infrastructure- Aquatics  
Ver- 12 June 27**





Cedar Point ELC  
Tile 5  
July 4, 2012  
C. Payette  
160960709





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## Woodland & Wildlife Habitat Assessment Form

**Stantec**

Project Number: 160960709

Project Name: NRWC

Date: May 28, 2012

Field Personnel: N. Chauten

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>28</u>	<u>2</u>	<u>30% Haze</u>	<u>—</u>	<u>rain</u>

ELC Polygon: #5-3 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

**Reptile / Bat Hibernacula Features:** Contains potential reptile hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]  
 Contains potential bat hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

**Bat Roosting Features:** Contains potential bat roosting features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

**Stick Nests:** Contains large stick nests?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

**Seeps/Springs/Vernal Pools:** Contains seeps/springs/vernal pools?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?
<u>Throughout</u>	<u>poOLS</u>		<u>dry</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

**SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)**

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scar; SI=other sign; TK=track; VO=vocalization







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## Woodland & Wildlife Habitat Assessment Form

**Stantec**

Project Number: 160960709

Project Name: Cedar Point

Date: May 28, 2012

Field Personnel: N. Charlton

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	28	1	30%	—	—

ELC Polygon: #5-A Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

**Reptile / Bat Hibernacula Features:** Contains potential reptile hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]  
 Contains potential bat hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

**Bat Roosting Features:** Contains potential bat roosting features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

**Stick Nests:** Contains large stick nests?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

**Seeps/Springs/Vernal Pools:** Contains seeps/springs/vernal pools?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

**SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)**

-ditch w water along road

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scar; SI=other sign; TK=track; VO=vocalization

CEDAR POINT

**ELC**  
 COMMUNITY DESCRIPTION & CLASSIFICATION

SITE: THOMASBORO LANE ROW  
 POLYGON: 5-A

SURVEYOR(S): NC  
 DATE: May 28, 2012  
 TIME: \_\_\_\_\_

START: 9:45  
 END: 10:00  
 UTMZ: \_\_\_\_\_

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
<input checked="" type="checkbox"/> TERRESTRIAL <input type="checkbox"/> WETLAND <input type="checkbox"/> AQUATIC	<input type="checkbox"/> ORGANIC <input checked="" type="checkbox"/> MINERAL SOIL <input type="checkbox"/> PARENT MIN. <input type="checkbox"/> ACIDIC BEDRK. <input type="checkbox"/> BASIC BEDRK. <input type="checkbox"/> CARB. BEDRK.	<input type="checkbox"/> LACUSTRINE <input type="checkbox"/> RIVERINE <input type="checkbox"/> BOTTOMLAND <input type="checkbox"/> TERRACE <input type="checkbox"/> VALLEY SLOPE <input type="checkbox"/> TABLELAND <input type="checkbox"/> ROLL UPLAND <input type="checkbox"/> CLIFF <input type="checkbox"/> TALUS <input type="checkbox"/> CREVICE / CAVE <input type="checkbox"/> ALVAR <input type="checkbox"/> ROCKLAND <input type="checkbox"/> BEACH / BAR <input type="checkbox"/> SAND DUNE <input type="checkbox"/> BLUFF	<input type="checkbox"/> NATURAL <input checked="" type="checkbox"/> CULTURAL  <input type="checkbox"/> COVER <input checked="" type="checkbox"/> OPEN <input type="checkbox"/> PRAIRIE <input type="checkbox"/> SHRUB <input type="checkbox"/> TREED	<input type="checkbox"/> PLANKTON <input type="checkbox"/> SUBMERGED <input type="checkbox"/> FLOATING-L.VD. <input type="checkbox"/> GRAMINOID <input type="checkbox"/> FORB <input type="checkbox"/> LICHEN <input type="checkbox"/> BRYOPHYTE <input type="checkbox"/> DECIDUOUS <input type="checkbox"/> CONIFEROUS <input type="checkbox"/> MIXED	<input type="checkbox"/> LAKE <input type="checkbox"/> POND <input type="checkbox"/> RIVER <input type="checkbox"/> STREAM <input type="checkbox"/> MARSH <input type="checkbox"/> SWAMP <input type="checkbox"/> FEN <input type="checkbox"/> BOG <input type="checkbox"/> BARREN <input type="checkbox"/> MEADOW <input type="checkbox"/> PRAIRIE <input type="checkbox"/> THICKET <input type="checkbox"/> SAVANNAH <input type="checkbox"/> WOODLAND <input type="checkbox"/> FOREST <input type="checkbox"/> PLANTATION

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	3-4	2	JUGNIGR = ULMAMEK = FRAX SP
2 SUB-CANOPY			
3 UNDERSTOREY			
4 GRD. LAYER	5-7	4	SOLIDARO > GRASSES

HT CODES: 1=>25m 2=10-4HT<25m 3=2-4HT<15m 4=1-4HT<2m 6=0.5-4HT<1m 6=0.2-4HT<0.5m 7=HT<0.2m  
 CVR CODES: 0=NONE 1=0%-CVR<10% 2=10-CVR<25% 3=25-CVR<50% 4=50-CVR<60%

STAND COMPOSITION:

BA: \_\_\_\_\_

SIZE CLASS ANALYSIS:	A	<10	10-24	25-50	>60
STANDING SNAGS:	0	10	10	25	50
DEADFALL LOGS:	0	10	10	25	50

ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT

COMM. AGE:  PIONEER  YOUNG  MID-AGE  MATURE  OLD GROWTH

SOIL ANALYSIS:

TEXTURE: \_\_\_\_\_

MOISTURE: \_\_\_\_\_

HOMOGENEOUS / VARIABLE: \_\_\_\_\_

DEPTH TO MOTTLES/GLEY: \_\_\_\_\_

DEPTH OF ORGANICS: \_\_\_\_\_

DEPTH TO BEDROCK: \_\_\_\_\_

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS: \_\_\_\_\_

COMMUNITY SERIES: \_\_\_\_\_

ECOSITE: \_\_\_\_\_

VEGETATION TYPE: D-Old field meadow

INCLUSION: \_\_\_\_\_

COMPLEX: \_\_\_\_\_

Evidence of Disturbance / Notes:

CUM with scattered occurrences of young  
 the odd mature ULMAMEK

ELC

SITE: \_\_\_\_\_  
 POLYGON: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 SURVEYOR(S): \_\_\_\_\_

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER  
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				SPECIES CODE	LAYER				COLL
	1	2	3	4		1	2	3	4	
SOLIDARO C/A				A	TRIFOL (Red)					
GRASSES				A	VITIC RIPARIA					
ACSYR					BRONNER					
SYMONOVA					DACGLUM					
ARGEMINA					POA SP					
JUGNIGR				0	PHALARIS					
ULMAMEK				R	SOLIDARO					
FRAX SP										
CORAMOM										

Page \_\_\_ of \_\_\_

Signature: *Niall O'Connell*  
 (Field Personnel)

JUGNIGR, ULMAMEK, FRAX SP  
 (Project Manager)

Quality Control: This form is complete  & legible .

Signature: \_\_\_\_\_





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## Woodland & Wildlife Habitat Assessment Form

**Stantec**

Project Number: 160960709

Project Name: Cedar Point

Date: May 28, 2012

Field Personnel: N. Charlton

Weather Conditions:	TEMP (°C): <u>28</u>	WIND: <u>7</u>	CLOUD: <u>30</u>	PPT: <u>—</u>	PPT (in last 24 hrs): <u>—</u>
---------------------	-------------------------	-------------------	---------------------	------------------	-----------------------------------

ELC Polygon: # 5-2 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

**Reptile / Bat Hibernacula Features:** Contains potential reptile hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]  
 Contains potential bat hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

**Bat Roosting Features:** Contains potential bat roosting features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

**Stick Nests:** Contains large stick nests?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

**Seeps/Springs/Vernal Pools:** Contains seeps/springs/vernal pools?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

**SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)**

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scar; SI=other sign; TK=track; VO=vocalization







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## Woodland & Wildlife Habitat Assessment Form

**Stantec**

Project Number: 160960709

Project Name: \_\_\_\_\_

Date: May 28, 2012

Field Personnel: N. Charlton

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>28</u>	<u>1</u>	<u>30</u>	<u>—</u>	<u>—</u>

ELC Polygon: #5-1 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

**Reptile / Bat Hibernacula Features:** Contains potential reptile hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]  
 Contains potential bat hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

**Bat Roosting Features:** Contains potential bat roosting features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

**Stick Nests:** Contains large stick nests?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

STICK NEST(S) IDENTIFIED					
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature

**Seeps/Springs/Vernal Pools:** Contains seeps/springs/vernal pools?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?
<u>Throughout</u>	<u>Pools (dry)</u>		<u>dry</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

**SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)**

CA=carcass; DP=distinctive parts; FE=feeding evidence; EY=eggs/nest; HO=house/den; OB=observed; SC=scat; SI=other sign; TK=track; VO=vocalization

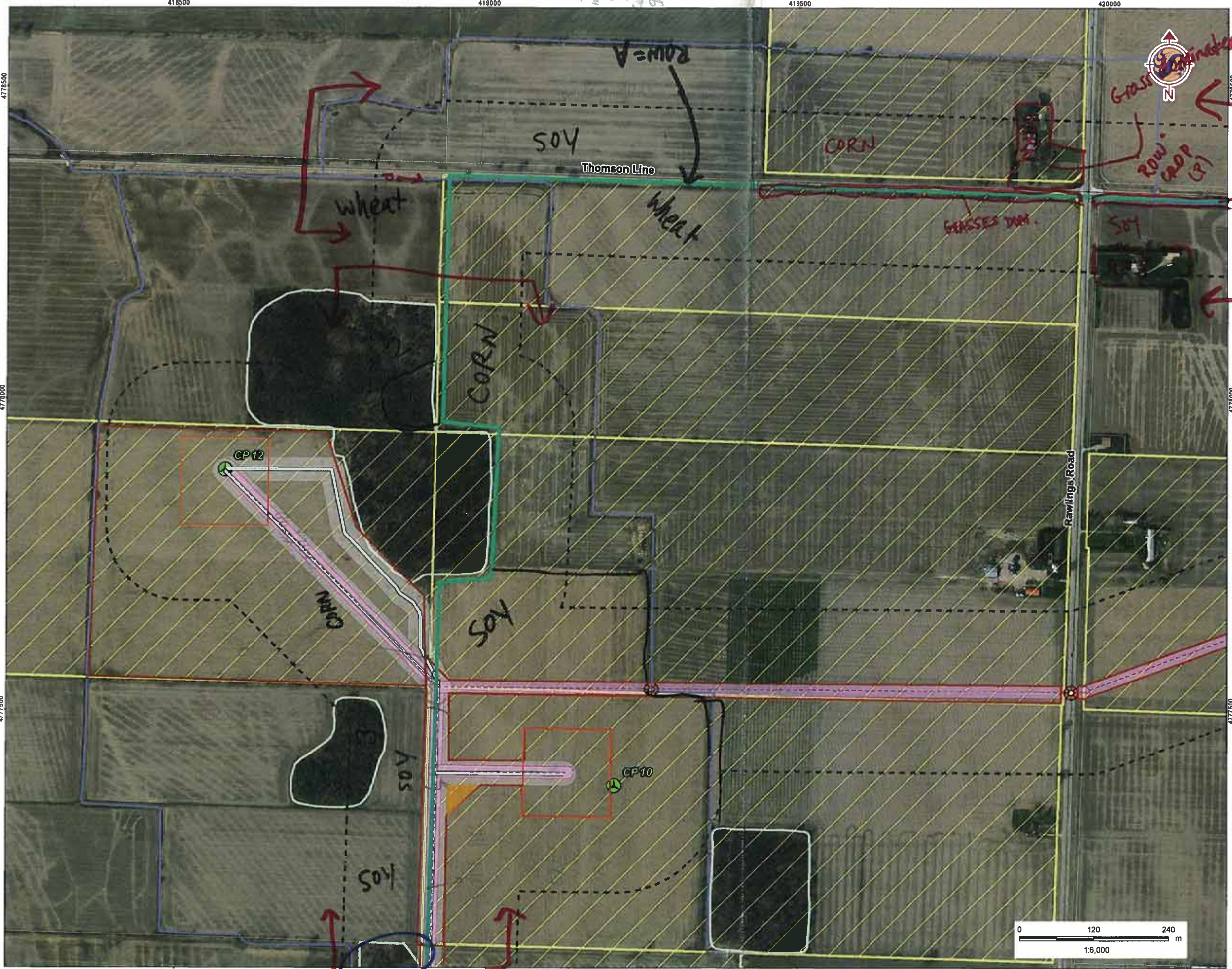




T model  
virg.  
Eir  
9/14

Just  
transmissk  
line

ABUTHEO, LOTCORN  
SOSP, TUVV



- Legend**
- 120m Zone of Investigation
  - Proposed Turbine Location
  - MET Tower
  - Culvert Location
  - HD Location
  - Access Road
  - Transmission Line
  - Underground Collector Line
  - Turbine Laydown Area
  - Substation
  - Expressway / Highway
  - Road
  - Watercourse
  - Constructed Drain
  - Waterbody
  - Municipal Boundary
  - Property Boundary
  - Surveyed Areas (Archeology)
- Land Status**
- Optioned Properties (Suncor)
  - Forest Lands
  - NextEra Properties
  - Optioned Properties (Eirin)

grasses

# DRAFT

- Notes**
- Coordinate System: NAD 1983 UTM Zone 17N
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**Stantec**

May, 2012  
160960709

Client/Project  
Suncor Energy  
Cedar Point Wind Project

Figure No.  
Tile 5 of 54

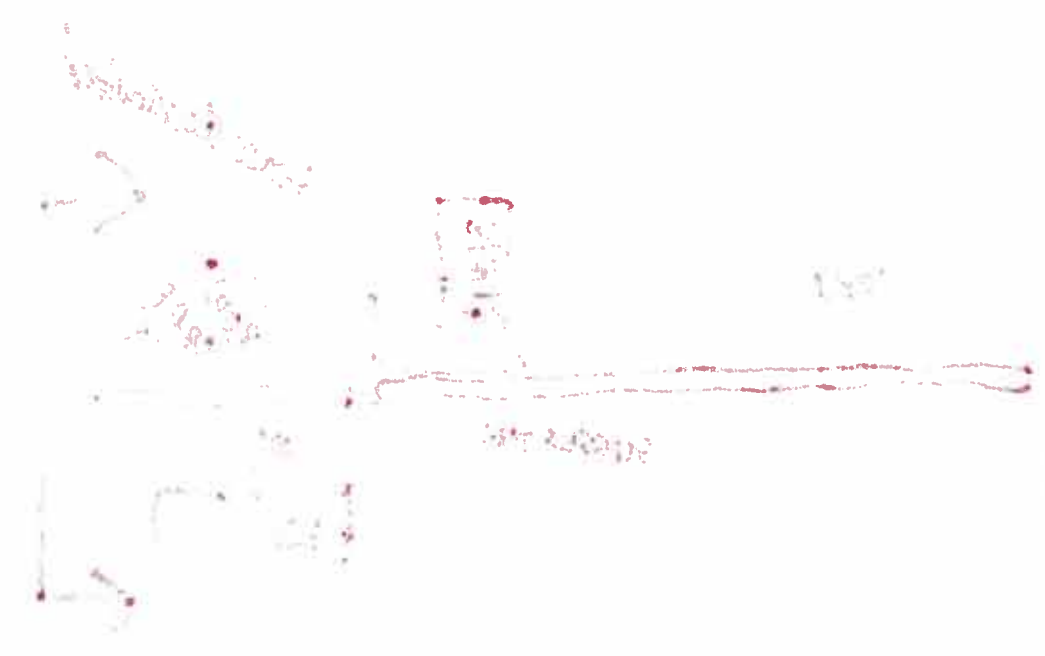
Title  
**Project Infrastructure**  
Ver- 12 May 07

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file 5



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Stantec Consulting Ltd.  
 1 - 70 Southgate Drive  
 Guelph, ON  
 Canada N1G 4P5  
 Tel: (519) 836-6050  
 Fax: (519) 836-2493

## Woodland & Wildlife Habitat Assessment Form

**Stantec**

Project Number: 160960709

Project Name: Cedar Point Wf

Date: July 10, 2012

Field Personnel: C. Payne

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>29</u>	<u>3-4</u>	<u>89%</u>	<u>none</u>	<u>none</u>

ELC Polygon: #5-1 Assessment Type:  Visual; roadside, no access /  Physical; walk through feature

Extent of Physical Investigation of Feature:  Entire /  Partial, walk through polygon (indicate on map)

**Reptile / Bat Hibernacula Features:** Contains potential reptile hibernacula features?  
 Y\* /  N /  Unknown, no access (\*if yes, describe in table below)  
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]  
 Contains potential bat hibernacula features?  
 Y\* /  N /  Unknown, no access (\*if yes, describe in table below)  
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

**Bat Roosting Features:** Contains potential bat roosting features?  
 Y\* /  N /  Unknown, no access (\*if yes, describe in table below)  
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

**Stick Nests:** Contains large stick nests?  
 Y\* /  N /  Unknown, no access (\*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

**Seeps/Springs/Vernal Pools:** Contains seeps/springs/vernal pools?  
 Y\* /  N /  Unknown, no access (\*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?
<u>n/a</u>	<u>Throughout VP</u>	<u>10x20</u>	<u>dry</u>	<u>5</u>	<u>No</u>	<u>yes - abundant</u>

**SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)**

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scar; SI=other sign; TK=track; VO=vocalization







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## Woodland & Wildlife Habitat Assessment Form

**Stantec**

Project Number: 160960709

Project Name: Cedar Point WF

Date: July 10, 2012

Field Personnel: C. Payette

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>29</u>	<u>3-4</u>	<u>0%</u>	<u>None</u>	<u>None</u>

ELC Polygon: #5-2 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

**Reptile / Bat Hibernacula Features:** Contains potential reptile hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]  
 Contains potential bat hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

**Bat Roosting Features:** Contains potential bat roosting features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

**Stick Nests:** Contains large stick nests?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

**Seeps/Springs/Vernal Pools:** Contains seeps/springs/vernal pools?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

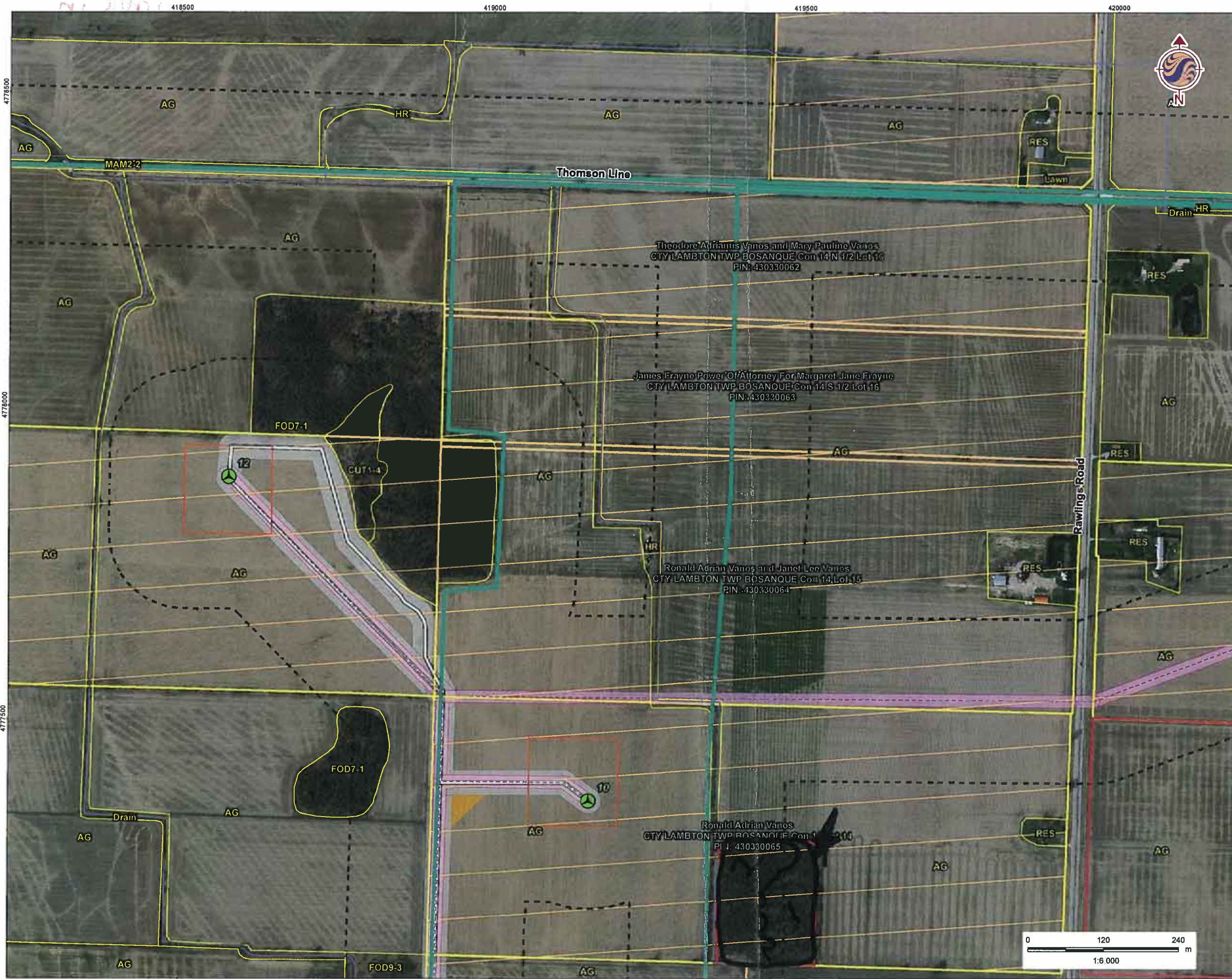
SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED							
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?	
	<u>throughout features</u>		<u>N/A</u>	<u>N/A</u>	<u>no</u>	<u>yes-abundant</u>	

**SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)**

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scar; SI=other sign; TK=track; VO=vocalization







**Legend**

- 120m Zone of Investigation
- Proposed Turbine Location
- MET Tower
- Access Road
- Transmission Line
- Underground Collector Line
- Turbine Laydown Area
- Substation
- Expressway / Highway
- Road
- Watercourse
- Constructed Drain
- Waterbody
- Municipal Boundary
- Property Boundary
- Land Status**
- Optioned Properties (Suncor)
- NextEra Properties
- ELC Status**
- ELC - Need Codes
- ELC - Complete

*Handwritten:* Fred woodlot  
\* red Ag

**DRAFT**

**Notes**

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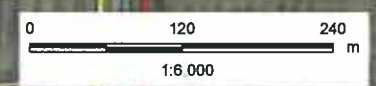
**Stantec**

July, 2012  
160960709

Client/Project  
Suncor Energy  
Cedar Point Wind Project

Figure No.  
Tile 5 of 54

Title  
**Project Infrastructure- Aquatics  
Ver- 12 June 27**





walkin  
tile5

July 10 2012

Handwritten notes or markings at the bottom center of the page.



Assess Red Area From Road



**Legend**

- 120m Zone of Investigation
- Proposed Turbine Location
- MET Tower
- Access Road
- Transmission Line
- Underground Collector Line
- Turbine Laydown Area
- Substation
- Expressway / Highway
- Road
- Watercourse
- Constructed Drain
- Waterbody
- Municipal Boundary
- Property Boundary
- Land Status**
- Optioned Properties (Suncor)
- NextEra Properties
- ELC Status**
- ELC - Need Codes
- ELC - Complete

**DRAFT**

**Notes**

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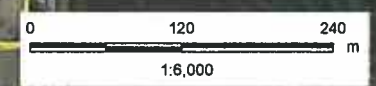
**Stantec**

July, 2012  
160960709

Client/Project  
Suncor Energy  
Cedar Point Wind Project

Figure No.  
Tile 6 of 54

Title  
**Project Infrastructure- Aquatics  
Ver- 12 June 27**





Cedar Point LLC  
Tile 6  
July 4, 2012  
C. Payette  
160960709



#Assess Ag in Red



**Legend**

- 120m Zone of Investigation
- Proposed Turbine Location
- MET Tower
- Access Road
- Transmission Line
- Underground Collector Line
- Turbine Laydown Area
- Substation
- Expressway / Highway
- Road
- Watercourse
- Constructed Drain
- Waterbody
- Municipal Boundary
- Property Boundary
- Land Status**
- Optioned Properties (Suncor)
- NextEra Properties
- ELC Status**
- ELC - Need Codes
- ELC - Complete

# DRAFT

**Notes**

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**Stantec**

July, 2012  
160960709

Client/Project  
Suncor Energy  
Cedar Point Wind Project

Figure No.  
Tile 7 of 54

Title  
**Project Infrastructure- Aquatics  
Ver- 12 June 27**

Seetile 4

7



**ELC** SITE: Cedarpoint POLYGON: 9-C

COMMUNITY DESCRIPTION & CLASSIFICATION SURVEYOR(S): C. G. ... DATE: Dec 15, 2011 TIME: UTM:

START: 9:45 END: 10:45 UTMZ: UTM:

**POLYGON DESCRIPTION**

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
1 TERRESTRIAL	<input type="checkbox"/> ORGANIC	<input type="checkbox"/> LACUSTRINE	<input checked="" type="checkbox"/> NATURAL	<input type="checkbox"/> PLANKTON	<input type="checkbox"/> LAKE
1 WETLAND	<input checked="" type="checkbox"/> MINERAL SOIL	<input type="checkbox"/> RIVERINE	<input type="checkbox"/> CULTURAL	<input type="checkbox"/> SUBMERGED	<input type="checkbox"/> POND
1 AQUATIC	<input type="checkbox"/> PARENT MIN.	<input type="checkbox"/> BOTTOMLAND		<input type="checkbox"/> FLOATING-LVD.	<input type="checkbox"/> RIVER
	<input type="checkbox"/> ACIDIC BEDRK.	<input type="checkbox"/> TERRACE		<input type="checkbox"/> GRAMINOID	<input type="checkbox"/> STREAM
	<input type="checkbox"/> BASIC BEDRK.	<input type="checkbox"/> VALLEY SLOPE		<input type="checkbox"/> FORB	<input type="checkbox"/> MARSH
	<input type="checkbox"/> CARB. BEDRK.	<input type="checkbox"/> TABLELAND		<input type="checkbox"/> LICHEN	<input type="checkbox"/> SWAMP
		<input type="checkbox"/> ROLL UPLAND		<input type="checkbox"/> BRYOPHYTE	<input type="checkbox"/> PEN
		<input type="checkbox"/> CLIFF		<input type="checkbox"/> DECIJOUUS	<input type="checkbox"/> BOG
		<input type="checkbox"/> TALUS		<input type="checkbox"/> CONIFEROUS	<input type="checkbox"/> BARREN
		<input type="checkbox"/> CREVICE / CAVE	<input type="checkbox"/> COVER	<input type="checkbox"/> MIXED	<input type="checkbox"/> MEADOW
1 OPEN WATER		<input type="checkbox"/> ALVAR	<input type="checkbox"/> OPEN		<input type="checkbox"/> THICKET
1 SHALLOW WATER		<input type="checkbox"/> ROCKLAND	<input type="checkbox"/> SHRUB		<input type="checkbox"/> SAVANNAH
1 SURFICIAL DEP.		<input type="checkbox"/> BEACH / BAR	<input type="checkbox"/> TREED		<input type="checkbox"/> WOODLAND
1 BEDROCK		<input type="checkbox"/> SAND DUNE			<input type="checkbox"/> FOREST
		<input type="checkbox"/> BLUFF			<input type="checkbox"/> PLANTATION

**TAND DESCRIPTION:**

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE
CANOPY	2	3	(->MUCH GREATER THAN; >GREATER THAN; = ABOUT EQUAL TO)
SUB-CANOPY	4	1	ACEREE = ACESACC > ACERUG
UNDERSTOREY	4	2	winterberry, Nanny berry
GRD. LAYER	5-7	2	Beaked sedge, Solidago sp

T CODES: 1=>25m 2=10-HT<25m 3=2-HT<10m 4=1-HT<2m 5=0.5-HT<1m 6=0.2-HT<0.5m 7=HT<0.2m  
 VR CODES: 0=NONE 1=0%-CVR<10% 2=10-CVR<25% 3=25-CVR<50% 4=CVR>50%

**TAND COMPOSITION:**

BA:	
SIZE CLASS ANALYSIS:	0 <10 A 10-24 A 25-50 R >50
TANDING SNAGS:	R <10 O 10-24 O 25-50 N >50
HEADFALL/LOGS:	A <10 A 10-24 O 25-50 R >50
ABUNDANCE CODES:	N=NONE R=RARE O=OCCASIONAL A=ABUNDANT
OMM. AGE:	PIONEER YOUNG MID-AGE MATURE OLD GROWTH

**OIL ANALYSIS:**

EXTURE: DEPTH TO MOTTLES/GLEY G=

OSTURE: DEPTH OF ORGANICS: (cm) G=

OMOGENEOUS / VARIABLE: DEPTH TO BEDROCK: (cm) G=

**COMMUNITY CLASSIFICATION:**

COMMUNITY CLASS: CODE: SWD3-4

COMMUNITY SERIES: CODE: SWD3-4

POSTITE: CODE: SWD3-4

VEGETATION TYPE: Dec-Block ...

INCLUSION: CODE: SWD3-4

COMPLEX: CODE: SWD3-4

idence of Disturbance / Notes: -Dec Skull, water depth of 0.3

**ELC** SITE: Cedarpoint POLYGON: 9-C

COMMUNITY DESCRIPTION & CLASSIFICATION SURVEYOR(S): C. G. ... DATE: Dec 15, 2011 TIME: UTM:

START: 9:45 END: 10:45 UTMZ: UTM:

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER  
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				SPECIES CODE	LAYER				COLL
	1	2	3	4		1	2	3	4	
ACESACC					Beaked sedge					
ACEREE	D-A				ASIA SP					0
FRAPENS	D-A				Solidago sp					0
ACERUG	R									
FAGGRAN	O									
NIDUMWAY SPRUCE	R									

Quality Control: This form is complete  & legible

Signature: [Signature] (Field Personnel)

Signature: [Signature] (Project Manager)

Page \_\_\_ of \_\_\_





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Guelph, ON  
Canada N1G 4P5  
Tel: (519) 836-6050  
Fax: (519) 836-2493

## Woodland & Wildlife Habitat Assessment Form

**Stantec**

Project Number: 160960709

Project Name: Cedar Point

Date: Dec 13, 2012

Field Personnel: C. Payette, M. Leava

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>8-10</u>	<u>1-3</u>	<u>100</u>	<u>light rain</u>	<u>heavy rain</u>

ELC Polygon: #9-C Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

**Reptile / Bat Hibernacula Features:** Contains potential reptile hibernacula features?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)  
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]  
 Contains potential bat hibernacula features?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)  
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

**Bat Roosting Features:** Contains potential bat roosting features?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)  
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

**Stick Nests:** Contains large stick nests?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)

STICK NEST(S) IDENTIFIED					
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature

**Seeps/Springs/Vernal Pools:** Contains seeps/springs/vernal pools?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

**SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)**

1 deer skull.

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scar; SI=other sign; TK=track; VO=vocalization









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Tel: (519) 836-6050  
Fax: (519) 836-2493

## Woodland & Wildlife Habitat Assessment Form

**Stantec**

Project Number: 160960709

Project Name: Cedar Point

Date: Dec 15, 2012

Field Personnel: C. Payne, N. Leava

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>8-10</u>	<u>1-3</u>	<u>100</u>	<u>light rain</u>	<u>Heavy Rain</u>

ELC Polygon: # 9-A Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

**Reptile / Bat Hibernacula Features:** Contains potential reptile hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]  
 Contains potential bat hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. karst topography, abandoned mines or caves]

**POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED**

UTM	Feature Description	Photo No.	Spp. Observed Using Feature

**Bat Roosting Features:** Contains potential bat roosting features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

**POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED**

UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

**Stick Nests:** Contains large stick nests?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

**STICK NEST(S) IDENTIFIED**

UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature

**Seeps/Springs/Vernal Pools:** Contains seeps/springs/vernal pools?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

**SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED**

UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

**SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)**

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scar; SI=other sign; TK=track; VO=vocalization



**ELC**  
 COMMUNITY DESCRIPTION & CLASSIFICATION

SITE: POLYGON: 9-B  
 SURVEYOR(S): DATE:  
 START: END: UTMZ: UTMN:

**POLYGON DESCRIPTION**

<b>SYSTEM</b>	<b>SUBSTRATE</b>	<b>TOPOGRAPHIC FEATURE</b>	<b>HISTORY</b>	<b>PLANT FORM</b>	<b>COMMUNITY</b>
<input type="checkbox"/> TERRESTRIAL	<input type="checkbox"/> ORGANIC	<input type="checkbox"/> LACUSTRINE	<input type="checkbox"/> NATURAL	<input type="checkbox"/> PLANKTON	<input type="checkbox"/> LAKE
<input type="checkbox"/> WETLAND	<input type="checkbox"/> MINERAL SOIL	<input type="checkbox"/> RIVERINE	<input type="checkbox"/> CULTURAL	<input type="checkbox"/> SUBMERGED	<input type="checkbox"/> POND
<input type="checkbox"/> AQUATIC	<input type="checkbox"/> PARENT MIN.	<input type="checkbox"/> BOTTOMLAND		<input type="checkbox"/> FLOATING-LVD.	<input type="checkbox"/> RIVER
	<input type="checkbox"/> ACIDIC BEDRK.	<input type="checkbox"/> TERRACE		<input type="checkbox"/> GRAMINOID	<input type="checkbox"/> STREAM
	<input type="checkbox"/> BASIC BEDRK.	<input type="checkbox"/> VALLEY SLOPE		<input type="checkbox"/> FORB	<input type="checkbox"/> MARSH
	<input type="checkbox"/> CARB. BEDRK.	<input type="checkbox"/> TABLELAND		<input type="checkbox"/> LICHEN	<input type="checkbox"/> SWAMP
		<input type="checkbox"/> ROLL UPLAND		<input type="checkbox"/> BRYOPHYTE	<input type="checkbox"/> FEN
		<input type="checkbox"/> CLIFF		<input type="checkbox"/> DECIDUOUS	<input type="checkbox"/> BOG
		<input type="checkbox"/> TALUS	<input type="checkbox"/> COVER	<input type="checkbox"/> CONIFEROUS	<input type="checkbox"/> BARRON
<input type="checkbox"/> OPEN WATER		<input type="checkbox"/> CREVICE / CAVE	<input type="checkbox"/> OPEN	<input type="checkbox"/> MIXED	<input type="checkbox"/> MEADOW
<input type="checkbox"/> SHALLOW WATER		<input type="checkbox"/> ALVAR	<input type="checkbox"/> SHRUB		<input type="checkbox"/> PRAIRIE
<input type="checkbox"/> SURFICIAL DEP.		<input type="checkbox"/> ROCKLAND	<input type="checkbox"/> TREED		<input type="checkbox"/> THICKET
<input type="checkbox"/> BEDROCK		<input type="checkbox"/> BEACH / BAR			<input type="checkbox"/> SAVANNAH
		<input type="checkbox"/> SAND DUNE			<input type="checkbox"/> WOODLAND
		<input type="checkbox"/> BLUFF			<input type="checkbox"/> FOREST
					<input type="checkbox"/> PLANTATION

**TAND DESCRIPTION:**

<b>LAYER</b>	<b>HT</b>	<b>CVR</b>	<b>SPECIES IN ORDER OF DECREASING DOMINANCE</b>
1 CANOPY	2	4	(>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
2 SUB-CANOPY			Sugar maple > Swamp white oak > Red oak
3 UNDERSTOREY	3-4	4	
4 GRD. LAYER	5-7	4	Sage sp. Thicket best > Strawberry

T CODES: 1=>25m 2=10-47.5m 3=2-47.5m 4=1-47.5m 5=0.5-47.5m 6=0.2-47.5m 7=HT<0.2m  
 VR CODES: 0=NONE 1=0%<CVR<10% 2=10<CVR<25% 3=25<CVR<50% 4=CVR>50%

**TAND COMPOSITION:**

<b>SIZE CLASS ANALYSIS:</b>	A	<10	0	10-24	A	25-50	R	>50
<b>TANDING SNAGS:</b>	A	<10	0	10-24	0	25-50	R	>50
<b>HEADFALL/LOGS:</b>	A	<10	0	10-24	0	25-50	R	>50

**BUNDANCE CODES:** N=NONE R=RARE O=OCCASIONAL A=ABUNDANT

**OMM. AGE:** PIONEER YOUNG MID-AGE MATURE OLD GROWTH

**OIL ANALYSIS:**

<b>EXTURE:</b>	DEPTH TO MOTTLES/GLEY	G=
<b>DIURE:</b>	DEPTH OF ORGANICS:	G=
<b>OMOGENEOUS / VARIABLE:</b>	DEPTH TO BEDROCK:	(cm)
		(cm)

**COMMUNITY CLASSIFICATION:**

COMMUNITY CLASS: CODE:  
 COMMUNITY SERIES: CODE:  
 COSTE: CODE:  
 VEGETATION TYPE: CODE: F0D6-S  
 INCLUSION: CODE:  
 COMPLEX: CODE:

vidence of Disturbance / Notes:

**ELC**  
 COMMUNITY DESCRIPTION & CLASSIFICATION

SITE: Cedar Point  
 POLYGON: 9-B  
 DATE: Dec 15, 2011  
 SURVEYOR(S): C. Payne, N. Leav

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER  
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				SPECIES CODE	LAYER			
	1	2	3	4		1	2	3	4
Sage maple					Sage				
Swamp white oak					Swamp white oak				
Red oak					Red oak				
White Oak					White oak				
White pine					White pine				
Basswood					Basswood				

Page \_\_\_ of \_\_\_  
 Signature: [Signature]  
 Signature: [Signature]  
 Quality Control: This form is complete  & legible .  
 (Field Personnel) (Project Manager)





Stantec Consulting Ltd.  
1 - 70 Southgate Drive  
Guelph, ON  
Canada N1G 4P5  
Tel: (519) 836-6050  
Fax: (519) 836-2493

## Woodland & Wildlife Habitat Assessment Form

**Stantec**

Project Number: 160960709

Project Name: Cedar Point

Date: Dec. 15, 2012

Field Personnel: C. Payne, M. Leavan

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>8-10</u>	<u>1-3</u>	<u>100%</u>	<u>light rain</u>	<u>heavy rain</u>

ELC Polygon: #9-B Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

**Reptile / Bat Hibernacula Features:** Contains potential reptile hibernacula features?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)  
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]  
 Contains potential bat hibernacula features?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)  
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

**Bat Roosting Features:** Contains potential bat roosting features?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)  
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

**Stick Nests:** Contains large stick nests?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

**Seeps/Springs/Vernal Pools:** Contains seeps/springs/vernal pools?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

**SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)**

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scar; SI=other sign; TK=track; VO=vocalization



**ELC**  
 SITE: Cedar Point  
 SURVEYOR(S): NC  
 DATE: May 3  
 START: 10:00  
 END: 10:15  
 POLYGON: creek near road  
 UTME:  
 UTMN:  
 UTMZ:

**POLYGON DESCRIPTION**

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
<input type="checkbox"/> TERRESTRIAL	<input type="checkbox"/> ORGANIC	<input type="checkbox"/> LACUSTRINE	<input type="checkbox"/> NATURAL	<input type="checkbox"/> PLANKTON	<input type="checkbox"/> LAKE
<input type="checkbox"/> WETLAND	<input type="checkbox"/> MINERAL SOIL	<input type="checkbox"/> RIVERINE	<input type="checkbox"/> CULTURAL	<input type="checkbox"/> SUBMERGED	<input type="checkbox"/> POND
<input type="checkbox"/> AQUATIC	<input type="checkbox"/> PARENT MIN.	<input type="checkbox"/> BOTTOMLAND		<input type="checkbox"/> FLOATING-LVD.	<input type="checkbox"/> RIVER
	<input type="checkbox"/> ACIDIC BEDRK.	<input type="checkbox"/> VALLEY SLOPE		<input type="checkbox"/> GRAMINOID	<input type="checkbox"/> STREAM
	<input type="checkbox"/> BASIC BEDRK.	<input type="checkbox"/> TABLELAND		<input type="checkbox"/> FORB	<input type="checkbox"/> MARSH
	<input type="checkbox"/> CARB. BEDRK.	<input type="checkbox"/> ROLL UPLAND		<input type="checkbox"/> BRYOPHYTE	<input type="checkbox"/> SWAMP
	<input type="checkbox"/> OPEN WATER	<input type="checkbox"/> CLIFF		<input type="checkbox"/> DECIDUOUS	<input type="checkbox"/> FEN
	<input type="checkbox"/> SHALLOW WATER	<input type="checkbox"/> TALUS	<b>COVER</b>	<input type="checkbox"/> CONIFEROUS	<input type="checkbox"/> BOG
<input type="checkbox"/> SURFICIAL DEP.	<input type="checkbox"/> ALVAR	<input type="checkbox"/> CREVICE / CAVE	<input type="checkbox"/> OPEN	<input type="checkbox"/> MIXED	<input type="checkbox"/> BARREN
<input type="checkbox"/> BEDROCK	<input type="checkbox"/> ROCKLAND	<input type="checkbox"/> BEACH / BAR	<input type="checkbox"/> SHRUB		<input type="checkbox"/> MEADOW
	<input type="checkbox"/> SAND DUNE	<input type="checkbox"/> SAND DUNE	<input type="checkbox"/> TREED		<input type="checkbox"/> PRAIRIE
	<input type="checkbox"/> BLUFF				<input type="checkbox"/> THICKET
					<input type="checkbox"/> SAVANNAH
					<input type="checkbox"/> WOODLAND
					<input type="checkbox"/> FOREST
					<input type="checkbox"/> PLANTATION

**STAND DESCRIPTION:**

LAYER CANOPY HT CVR  
 1 CANOPY  
 2 SUB-CANOPY  
 3 UNDERSTOREY  
 4 GRD. LAYER 5-7 4  
 HT CODES: 1=25m 2=10-4T≤10m 3=2-4T≤10m 4=1-4T≤10m 5=0.5-4T≤10m 6=0.2-4T≤10m 7=4T<0.2m  
 CVR CODES: 0=NONE 1=0%<CVR≤10% 2=10<CVR≤25% 3=25<CVR≤50% 4=CVR>50%

**STAND COMPOSITION:** BA:

SIZE CLASS ANALYSIS:	<10	10 - 24	25 - 50	>50
STANDING SNAGS:				
DEADFALL LOGS:				
ABUNDANCE CODES:	N=NONE	R=RARE	O=OCCASIONAL	A=ABUNDANT
COMM. AGE:	PIONEER	YOUNG	MID-AGE	MATURE
SOIL ANALYSIS:				
TEXTURE: sandy clay loam				
DEPTH TO MOTTLES/GLEY: 2-30cm				
MOISTURE: 5				
HOMOGENEOUS / VARIABLE: 40 cm				
DEPTH TO BEDROCK: 40 cm				

**COMMUNITY CLASSIFICATION:**

COMMUNITY CLASS: CODE:  
 COMMUNITY SERIES: CODE:  
 ECOSITE: CODE:  
 VEGETATION TYPE: CODE:

**Evidence of Disturbance / Notes:**

INCLUSION CODE:  
 COMPLEX CODE:

**ELC**  
 SITE: POLYGON:  
 COMMUNITY DESCRIPTION & CLASSIFICATION SURVEYOR(S):  
 DATE:

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER  
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				SPECIES CODE	LAYER				COLL.				
	1	2	3	4		1	2	3	4					
					PARINSE					A				
					BOINER					A				
					great leaved					A				
					LYTSAL					O				
					PARINSE					R				
					AMECANA					O				
					ALPETI					O				
					ADMINIV					O				
					SOLIDABA					O				

Page \_\_\_ of \_\_\_  
 Quality Control: This form is complete  & legible   
 Signature: \_\_\_\_\_ (Field Personnel)  
 Signature: \_\_\_\_\_ (Project Manager)

occasional patches of trees - mostly green ash and hawthorn  
 - creek closer to road, is weadier and forbs are ↑



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## Woodland & Wildlife Habitat Assessment Form

**Stantec**

Project Number: 160960709

Project Name: Cedar Point

Date: 3/05/2012

Field Personnel: N. Charlton

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>22</u>	<u>2-3</u>	<u>30</u>	<u>—</u>	<u>—</u>

ELC Polygon: #9-A Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

**Reptile / Bat Hibernacula Features:** Contains potential reptile hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge-abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]  
 Contains potential bat hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

**Bat Roosting Features:** Contains potential bat roosting features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

**Stick Nests:** Contains large stick nests?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

**Seeps/Springs/Vernal Pools:** Contains seeps/springs/vernal pools?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

**SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)**

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scar; SI=other sign; TK=track; VO=vocalization







**Stanter Consulting Ltd.**  
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 Fax: (519) 836-2493

## Woodland & Wildlife Habitat Assessment Form

**Stanter**

Project Number: 160960709

Project Name: \_\_\_\_\_

Date: \_\_\_\_\_

Field Personnel: N. Charlton

<b>Weather Conditions:</b>	TEMP (°C): <u>22</u>	WIND: <u>2-3</u>	CLOUD: <u>30</u>	PPT: <u>—</u>	PPT (in last 24 hrs): <u>✓</u>
----------------------------	-------------------------	---------------------	---------------------	------------------	-----------------------------------

ELC Polygon: #9-1 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (*indicate on map*)

**Reptile / Bat Hibernacula Features:** Contains potential reptile hibernacula features?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)  
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge-abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]

Contains potential bat hibernacula features?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)  
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

**Bat Roosting Features:** Contains potential bat roosting features?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)  
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

**Stick Nests:** Contains large stick nests?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

**Seeps/Springs/Vernal Pools:** Contains seeps/springs/vernal pools?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?
<u>Throughout</u>	<u>pools</u>		<u>dry</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

**SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)**

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scar; SI=other sign; TK=track; VO=vocalization



**ELC** SITE: Cedar Point POLYGON: 9-2

COMMUNITY DESCRIPTION & CLASSIFICATION SURVEYOR(S): NC DATE: May 31, 2012

START: 11:00 END: 12:00

UTMZ: UTME: UTMIN:

**POLYGON DESCRIPTION**

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
<input checked="" type="checkbox"/> TERRESTRIAL	<input type="checkbox"/> ORGANIC	<input type="checkbox"/> LACUSTRINE	<input checked="" type="checkbox"/> NATURAL	<input type="checkbox"/> PLANKTON	<input type="checkbox"/> LAKE
<input type="checkbox"/> WETLAND	<input type="checkbox"/> MINERAL SOIL	<input type="checkbox"/> RIVERINE	<input type="checkbox"/> CULTURAL	<input type="checkbox"/> SUBMERGED	<input type="checkbox"/> POND
<input type="checkbox"/> AQUATIC	<input type="checkbox"/> PARENT MIN.	<input type="checkbox"/> TERRACE		<input type="checkbox"/> FLOATING-LVD.	<input type="checkbox"/> RIVER
	<input type="checkbox"/> ACIDIC BEDRK.	<input type="checkbox"/> VALLEY SLOPE		<input type="checkbox"/> GRAMINOID	<input type="checkbox"/> STREAM
	<input type="checkbox"/> BASIC BEDRK.	<input type="checkbox"/> TABLELAND		<input type="checkbox"/> FORB	<input type="checkbox"/> MARSH
	<input type="checkbox"/> CARB. BEDRK.	<input type="checkbox"/> ROLL UPLAND		<input type="checkbox"/> BRYOPHYTE	<input type="checkbox"/> SWAMP
	<input type="checkbox"/> OPEN WATER	<input type="checkbox"/> CLIFF		<input type="checkbox"/> DECIDUOUS	<input type="checkbox"/> FEN
<input type="checkbox"/> SHALLOW WATER	<input type="checkbox"/> BEACH / BAR	<input type="checkbox"/> TALUS		<input type="checkbox"/> CONIFEROUS	<input type="checkbox"/> BOG
<input checked="" type="checkbox"/> SURFICIAL DEP.	<input type="checkbox"/> SAND DUNE	<input type="checkbox"/> ALVAR		<input type="checkbox"/> MIXED	<input type="checkbox"/> BAREEN
<input type="checkbox"/> BEDROCK	<input type="checkbox"/> BLUFF	<input type="checkbox"/> ROCKLAND	<input type="checkbox"/> COVER		<input type="checkbox"/> MEADOW
		<input type="checkbox"/> THICKET	<input type="checkbox"/> OPEN		<input type="checkbox"/> PRAIRIE
		<input type="checkbox"/> SAND DUNE	<input type="checkbox"/> SHRUB		<input type="checkbox"/> THICKET
		<input type="checkbox"/> BLUFF	<input type="checkbox"/> TREED		<input type="checkbox"/> SAVANNAH
					<input type="checkbox"/> WOODLAND
					<input type="checkbox"/> FOREST
					<input type="checkbox"/> PLANTATION

**STAND DESCRIPTION:**

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE
1 CANOPY	2	4	(>>MUCH GREATER THAN; >GREATER THAN; = ABOUT EQUAL TO)
2 SUB-CANOPY	3	3	FRAPENN > CAROVAT > TILAMER
3 UNDERSTOREY	4	3	FRAPENN > CAROVAT > TILAMER = OSTVIRG
4 GRD. LAYER	5-7	3	FRAPENN > CAROVAT > RIBCYNO > RHACATIT

HT CODES: 1=25m 2=10-4HT<25m 3=2-4HT<10m 4=1-4HT<2m 5=0.5-4HT<1m 6=0.2-4HT<0.5m 7=HT<0.2m  
 CVR CODES: 0=NONE 1=0%-CVR<10% 2=10%-CVR<25% 3=25%-CVR<50% 4=50%-CVR<60%

**STAND COMPOSITION:**

SIZE CLASS ANALYSIS:	<10	A	10-24	A	25-50	R	>50
STANDING SNAGS:	<10	0	10-24	R	25-50	N	>50
DEADFALL/LOGS:	<10	A	10-24	0	25-50	N	>50

ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT

COMM. AGE: PIONEER YOUNG MID-AGE MATURE OLD GROWTH

**SOIL ANALYSIS:** sandy clay loam

TEXTURE: 6

MOISTURE: 6

HOMOGENEOUS / VARIABLE

DEPTH TO MOTTLES/GLEY: 125

DEPTH OF ORGANICS: 25cm

DEPTH TO BEDROCK: 25cm

**COMMUNITY CLASSIFICATION:**

COMMUNITY CLASS: F-M Sheppard hickory seedlings forest

COMMUNITY SERIES: FOD9-4

ECOSITE: FOD9-4

VEGETATION TYPE: F-M Sheppard hickory seedlings forest

INCLUSION

COMPLEX

Evidence of Disturbance / Notes:

**ELC** SITE: POLYGON:

COMMUNITY DESCRIPTION & CLASSIFICATION SURVEYOR(S): DATE:

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER  
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				COLL
	1	2	3	4	
FRAPENN	A	A	0	0	0-A
CAROVAT	A	A	A	A	A
TILAMER	0	0	0	0	0
OSTVIRG	0	0	0	0	0
FRAPENN	R	R	0	0	0
PRUSERO	R	R	0	0	0
ACEASA	R	R	0	0	0
CARCHAD	R	R	0	0	0
PARINSE	0	0	0	0	0-R
CIRLUKE	0	0	0	0	0
ALLPETI	0	0	0	0	0
SANCANA	0	0	0	0	0
POISSON LVM	0	0	0	0	0
EPIHELL	0	0	0	0	0
RIBCYNO	0	0	0	0	0
PRICKLY ASH	0	0	0	0	0
VIBLANT	0	0	0	0	0
PRUVIUT	0	0	0	0	0
KHACATIT	0	0	0	0	0
RIBES SP	0	0	0	0	0

Page \_\_\_ of \_\_\_ Signature: *N.W. Chen* (Field Personnel)

Quality Control: This form is complete  & legible  Signature: \_\_\_\_\_ (Project Manager)



Stantec Consulting Ltd.  
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 Guelph, ON  
 Canada N1G 4P5  
 Tel: (519) 836-6050  
 Fax: (519) 836-2493

## Woodland & Wildlife Habitat Assessment Form

**Stantec**

Project Number: 160960709

Project Name: Cedar Point

Date: 31/05/2012

Field Personnel: N. Charlton

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>22</u>	<u>2-3</u>	<u>30</u>	<u>—</u>	<u>—</u>

ELC Polygon: #9-2 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

**Reptile / Bat Hibernacula Features:** Contains potential reptile hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge-abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]  
 Contains potential bat hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

**Bat Roosting Features:** Contains potential bat roosting features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

**Stick Nests:** Contains large stick nests?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

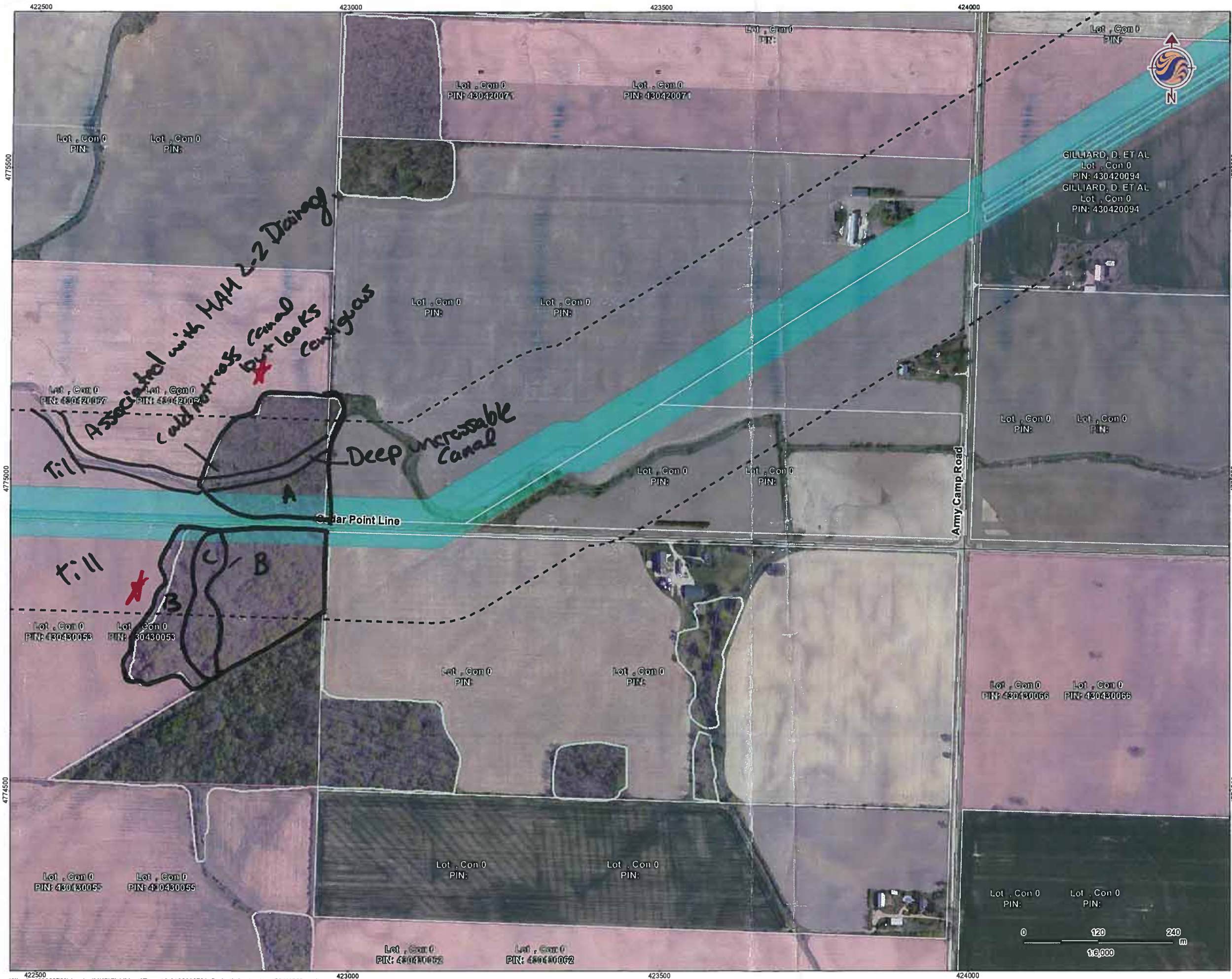
**Seeps/Springs/Vernal Pools:** Contains seeps/springs/vernal pools?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED							
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?	
<u>throughout</u>	<u>Small pool</u>		<u>dry</u>		<u>few</u>	<input checked="" type="checkbox"/>	

**SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)**

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HQ=house/den; OB=observed; SC=scar; SI=other sign; TK=track; VO=vocalization





- ### Legend
- 120m ZIO
  - Proposed Turbine Location
  - MET Tower
  - Culvert Location
  - HD Location
  - Access Road
  - Transmission Line
  - Underground Collector Line
  - Turbine Blade Tip
  - Turbine Laydown Area
  - Access Road ROW (40m)
  - Underground Cable ROW (20m)
  - Transmission Line ROW
  - Substation
  - Stage II Archaeological Survey Area
  - Expressway / Highway
  - Road
  - Watercourse
  - Waterbody
  - Municipal Boundary
  - Optioned Property
  - Property Boundary

# DRAFT

- ### Notes
1. Coordinate System: NAD 1983 UTM Zone 17N
  2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
  3. Orthographic imagery provided by St. Clair Conservation Authority © First Base Solutions, 2011. Imagery taken in Spring 2006.



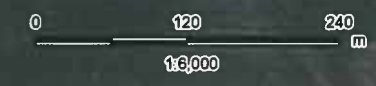
**Stantec**

December, 2011  
160960709

Client/Project  
Suncor Energy  
Cedar Point Wind Project

Figure No.  
Tile 9 of 44

Title  
**Project Infrastructure  
Ver- 11 Nov 15 Rev 1**



Gedau Point  
Reer skull

Tile 9  
160960709

A-C

water depth 0.3m

- Silver maple O-A
- Freeman's maple O-A
- Green ash R
- Nanny berry R
- Holly R
- Am beech R
- Red maple O
- Norway spruce R

- beaked sedge O
- Aster sp O
- goldenrod sp O

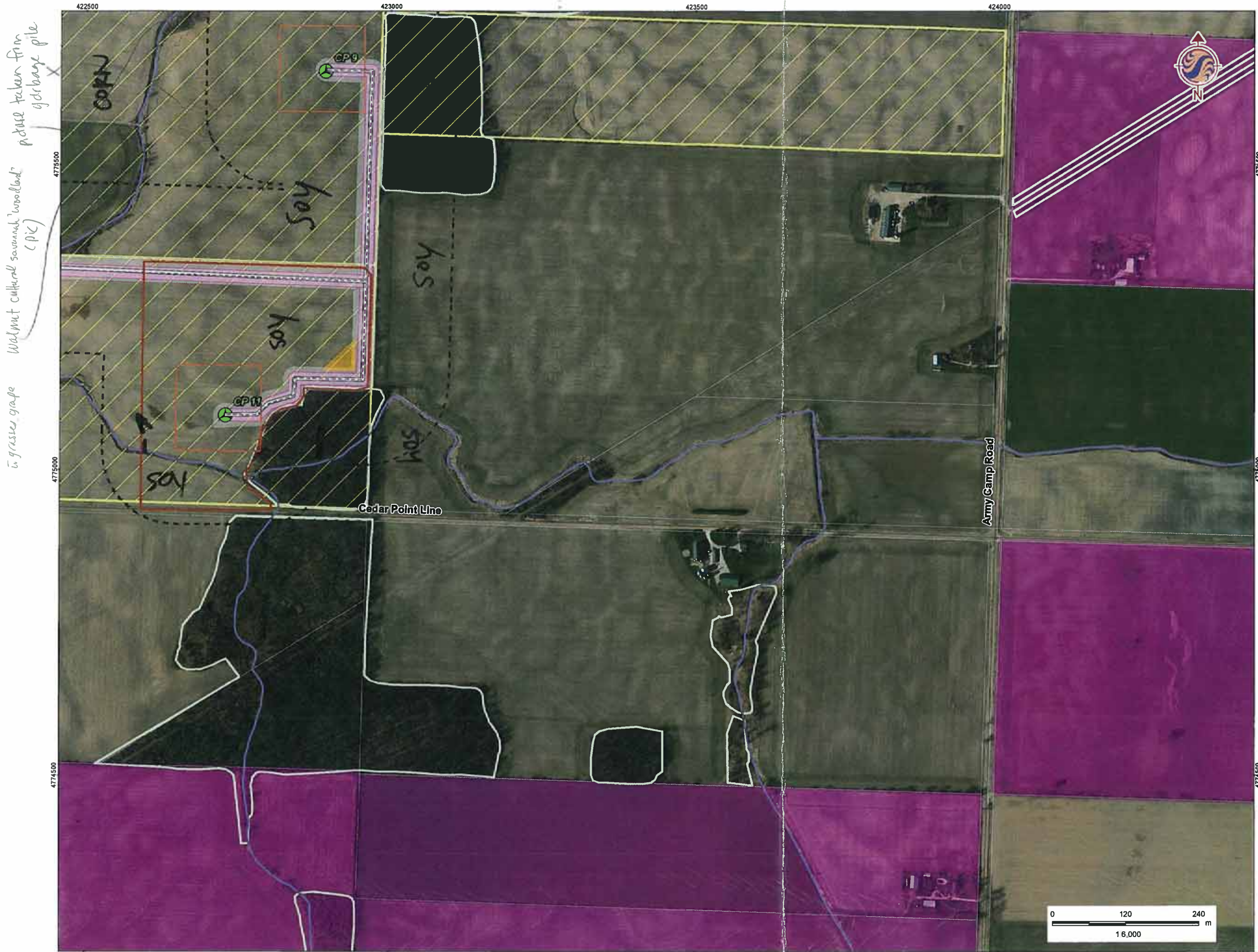
SWD3 - equal amounts  
of Silver, Freeman's &  
Red

Size class

O	A	A	R
R	O	O	N
A	A	O	R

Dec 15





**Legend**

- 120m Zone of Investigation
- Proposed Turbine Location
- MET Tower
- Culvert Location
- HD Location
- Access Road
- Transmission Line
- Underground Collector Line
- Turbine Laydown Area
- Substation
- Expressway / Highway
- Road
- Watercourse
- Constructed Drain
- Waterbody
- Municipal Boundary
- Property Boundary
- Surveyed Areas (Archeology)
- Land Status**
- Optioned Properties (Suncor)
- Forest Lands
- NextEra Properties
- Optioned Properties (Eirin)

All in 120

**DRAFT**

**Notes**

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011. ©Lambton County 2011.
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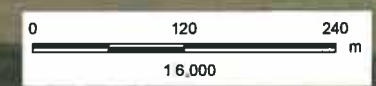
**Stantec**

May, 2012  
160960709

Client/Project  
Suncor Energy  
Cedar Point Wind Project

Figure No.  
Tile 9 of 54

Title  
**Project Infrastructure  
Ver- 12 May 07**



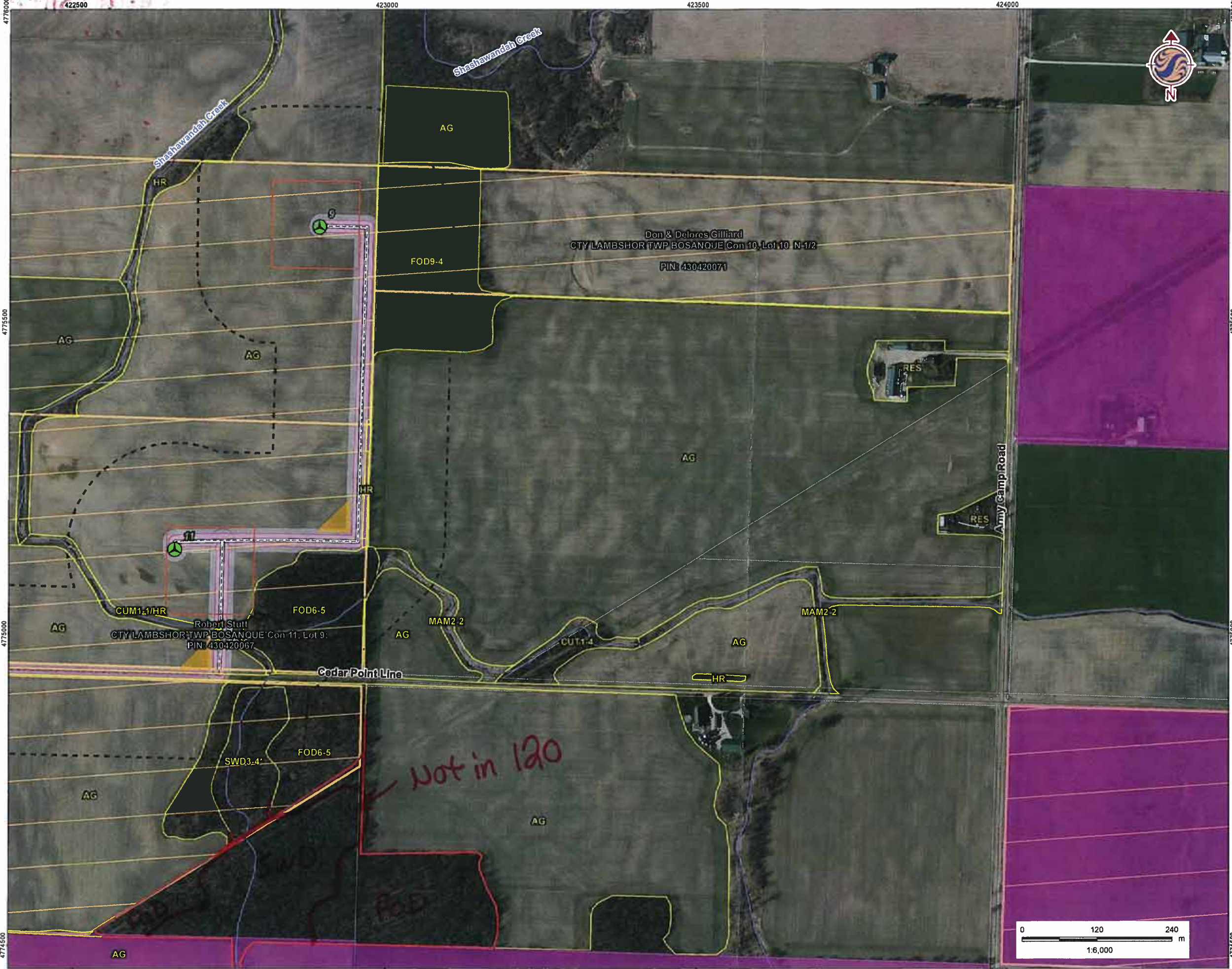
HA  
08/11

file 9

~~Not finished~~

7





*Assess woodlot from roadside*

**Legend**

- 120m Zone of Investigation
- Proposed Turbine Location
- MET Tower
- Access Road
- Transmission Line
- Underground Collector Line
- Turbine Laydown Area
- Substation
- Expressway / Highway
- Road
- Watercourse
- Constructed Drain
- Waterbody
- Municipal Boundary
- Property Boundary
- Land Status**
- Optioned Properties (Suncor)
- NextEra Properties
- ELC Status**
- ELC - Need Codes
- ELC - Complete

**DRAFT**

**Notes**

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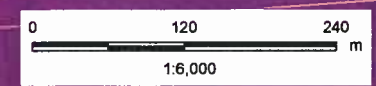
**Stantec**

July, 2012  
160960709

Client/Project  
Suncor Energy  
Cedar Point Wind Project

Figure No.  
Tile 9 of 54

Title  
**Project Infrastructure- Aquatics  
Ver- 12 June 27**



Cedar Point ELC  
Tile 9  
July 4, 2012  
C. Payette  
160960709







Stantec Consulting Ltd.  
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Guelph, ON  
Canada N1G 4P5  
Tel: (519) 836-6050  
Fax: (519) 836-2493

## Woodland & Wildlife Habitat Assessment Form

**Stantec**

Project Number: 160960709

Project Name: Cedar Point

Date: Dec 13, 2011

Field Personnel: C. Payette, N. Leava

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>8-10</u>	<u>1-3</u>	<u>100%</u>	<u>light rain</u>	<u>heavy rain</u>

ELC Polygon: #8-A - near edge Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

**Reptile / Bat Hibernacula Features:** Contains potential reptile hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]  
 Contains potential bat hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature
<u>17+04251234776128</u>	<u>large pile of cement &amp; debris/logs</u>	<u>5960</u>	<u>Np, its december!</u>

**Bat Roosting Features:** Contains potential bat roosting features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

**Stick Nests:** Contains large stick nests?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

**Seeps/Springs/Vernal Pools:** Contains seeps/springs/vernal pools?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

**SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)**

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scar; SI=other sign; TK=track; VO=vocalization









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Tel: (519) 836-6050  
Fax: (519) 836-2493

**Stantec**

## Woodland & Wildlife Habitat Assessment Form

Project Number: 160960709  
Date: Dec 15, 2011

Project Name: Cedar Point  
Field Personnel: C. Payette, N. Leava

Weather Conditions:	TEMP (°C): <u>8-10</u>	WIND: <u>4</u>	CLOUD: <u>100%</u>	PPT: <u>light rain</u>	PPT (in last 24 hrs): <u>heavy rain</u>
---------------------	---------------------------	-------------------	-----------------------	---------------------------	--

ELC Polygon: #8-E Assessment Type:  Visual; no access /  Walk through feature

Extent of Physical Investigation of Feature:  Entire /  Partial, walk through polygon (indicate on map)

**Reptile / Bat Hibernacula Features:** Contains potential reptile hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]  
 Contains potential bat hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

**Bat Roosting Features:** Contains potential bat roosting features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

**Stick Nests:** Contains large stick nests?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

**Seeps/Springs/Vernal Pools:** Contains seeps/springs/vernal pools?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED							
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?	

**SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)**

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scat; SI=other sign; TK=track; VO=vocalization







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Fax: (519) 836-2493

## Woodland & Wildlife Habitat Assessment Form

**Stantec**

Project Number: 160960709

Project Name: Cedar Point

Date: Dec 15, 2011

Field Personnel: C. Payette, N. Leava

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>8-10</u>	<u>5</u>	<u>100</u>	<u>light rain</u>	<u>heavy rain</u>

ELC Polygon: #8-D Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

**Reptile / Bat Hibernacula Features:** Contains potential reptile hibernacula features?  
-Y\* / -N / -Unknown, no access (*"if yes, describe in table below"*)  
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge-abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]  
 Contains potential bat hibernacula features?  
-Y\* / -N / -Unknown, no access (*"if yes, describe in table below"*)  
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

**Bat Roosting Features:** Contains potential bat roosting features?  
-Y\* / -N / -Unknown, no access (*"if yes, describe in table below"*)  
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

**Stick Nests:** Contains large stick nests?  
-Y\* / -N / -Unknown, no access (*"if yes, describe in table below"*)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

**Seeps/Springs/Vernal Pools:** Contains seeps/springs/vernal pools?  
-Y\* / -N / -Unknown, no access (*"if yes, describe in table below"*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

**SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)**

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scar; SI=other sign; TK=track; VO=vocalization









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Fax: (519) 836-2493

## Woodland & Wildlife Habitat Assessment Form

**Stantec**

Project Number: 160960709  
Date: Dec 15, 2011

Project Name: Cedar Point  
Field Personnel: C. Payette

Weather Conditions:	TEMP (°C): <u>8-10</u>	WIND: <u>1-3</u>	CLOUD: <u>100%</u>	PPT: <u>light rain</u>	PPT (in last 24 hrs): <u>heavy rain</u>
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ELC Polygon: # 8-C Assessment Type:  Visual; roadside, no access /  Physical; walk through feature

Extent of Physical Investigation of Feature:  Entire /  Partial, walk through polygon (indicate on map)

**Reptile / Bat Hibernacula Features:** Contains potential reptile hibernacula features?  
 Y\* /  N /  Unknown, no access (*\*if yes, describe in table below*)  
[i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]

Contains potential bat hibernacula features?  
 Y\* /  N /  Unknown, no access (*\*if yes, describe in table below*)  
[i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

**Bat Roosting Features:** Contains potential bat roosting features?  
 Y\* /  N /  Unknown, no access (*\*if yes, describe in table below*)  
[i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

**Stick Nests:** Contains large stick nests?  
 Y\* /  N /  Unknown, no access (*\*if yes, describe in table below*)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

**Seeps/Springs/Vernal Pools:** Contains seeps/springs/vernal pools?  
 Y\* /  N /  Unknown, no access (*\*if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

**SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)**

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scar; SI=other sign; TK=track; VO=vocalization









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 Guelph, ON  
 Canada N1G 4P5  
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 Fax: (519) 836-2493

## Woodland & Wildlife Habitat Assessment Form

**Stantec**

Project Number: 160960769

Project Name: Cedar Point

Date: Dec 15, 2011

Field Personnel: C. Payne, M. Leava

<b>Weather Conditions:</b>	TEMP (°C): <u>8-10</u>	WIND: <u>1-3</u>	CLOUD: <u>100%</u>	PPT: <u>light rain</u>	PPT (in last 24 hrs): <u>heavy rain</u>
----------------------------	---------------------------	---------------------	-----------------------	---------------------------	--

ELC Polygon: #8-B Assessment Type:  Visual; roadside, no access /  Physical; walk through feature

Extent of Physical Investigation of Feature:  Entire /  Partial, walk through polygon (indicate on map)

**Reptile / Bat Hibernacula Features:** Contains potential reptile hibernacula features?  
 Y\* /  N /  Unknown, no access (\*if yes, describe in table below)  
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]  
 Contains potential bat hibernacula features?  
 Y\* /  N /  Unknown, no access (\*if yes, describe in table below)  
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

**Bat Roosting Features:** Contains potential bat roosting features?  
 Y\* /  N /  Unknown, no access (\*if yes, describe in table below)  
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

**Stick Nests:** Contains large stick nests?  
 Y\* /  N /  Unknown, no access (\*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

**Seeps/Springs/Vernal Pools:** Contains seeps/springs/vernal pools?  
 Y\* /  N /  Unknown, no access (\*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

**SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)**

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scar; SI=other sign; TK=track; VO=vocalization









- ### Legend
- 120m ZIO
  - Proposed Turbine Location
  - MET Tower
  - Culvert Location
  - HD Location
  - Access Road
  - Transmission Line
  - Underground Collector Line
  - Turbine Blade Tip
  - Turbine Laydown Area
  - Access Road ROW (40m)
  - Underground Cable ROW (20m)
  - Transmission Line ROW
  - Substation
  - Stage II Archaeological Survey Area
  - Expressway / Highway
  - Road
  - Watercourse
  - Waterbody
  - Municipal Boundary
  - Optioned Property
  - Property Boundary

# DRAFT

- ### Notes
1. Coordinate System: NAD 1983 UTM Zone 17N
  2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
  3. Orthographic imagery provided by St. Clair Conservation Authority © First Base Solutions, 2011. Imagery taken in Spring 2006.



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December, 2011  
160960709

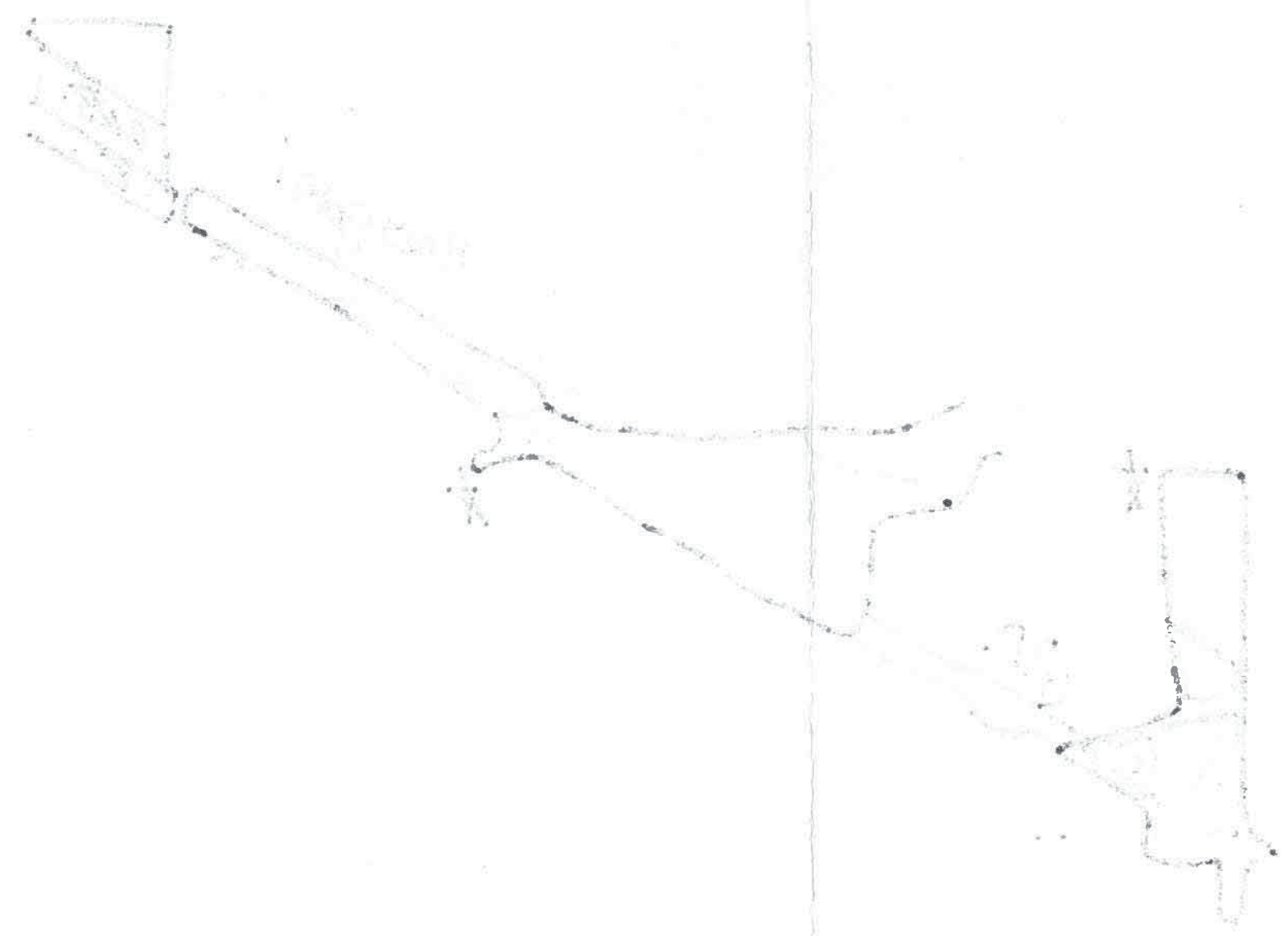
Client/Project  
Suncor Energy  
Cedar Point Wind Project

Figure No  
Tile 8 of 44

Title  
**Project Infrastructure  
Ver- 11 Nov 15 Rev 1**



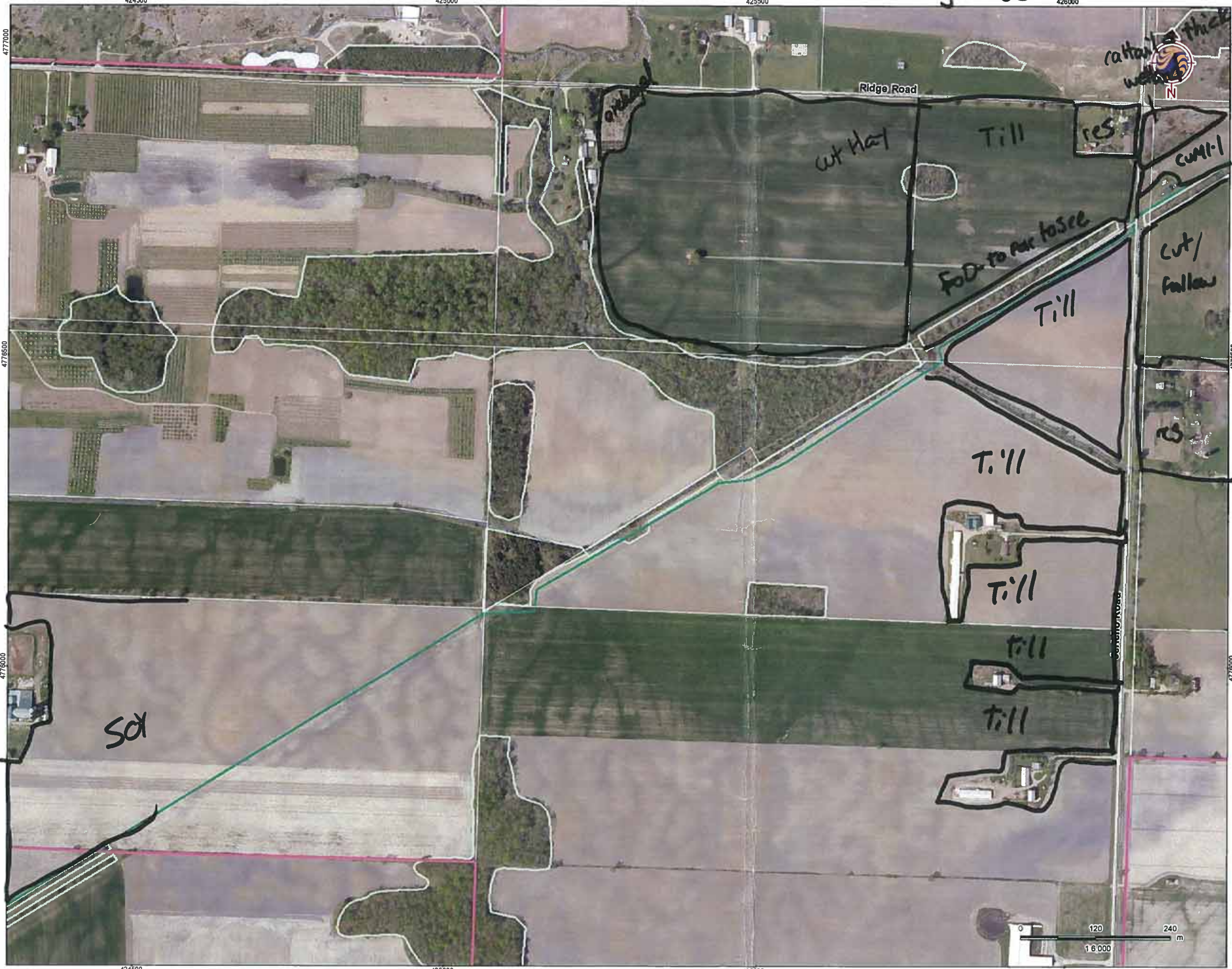
Cedar Point  
Tile #8  
160960709



Handwritten notes in pencil, mostly illegible due to fading. Some legible words include "pipe", "fittings", "connections", "dimensions", "notes", "check", "verify", "measure", "mark", "cut", "weld", "test", "inspect", "approve", "sign", "date", "drawn", "checked", "approved", "date", "signature".



Almost every house on Jericho's ridge line had step Turbine Signs



- Legend**
- 120m Zone of Investigation
  - Proposed Turbine Location
  - MET Tower
  - Culvert Location
  - HD Location
  - Access Road
  - Transmission Line
  - Underground Collector Line
  - Turbine Laydown Area
  - Substation
  - Access Road ROW (40m)
  - Underground Cable ROW (20m)
  - Stage II Archaeological Survey Area
  - Expressway / Highway
  - Road
  - Watercourse
  - Waterbody
  - Municipal Boundary
  - Property Boundary

**DRAFT**

- Notes**
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**Stantec**

November, 2011  
160960709

Client/Project  
Suncor Energy  
Cedar Point Wind Project

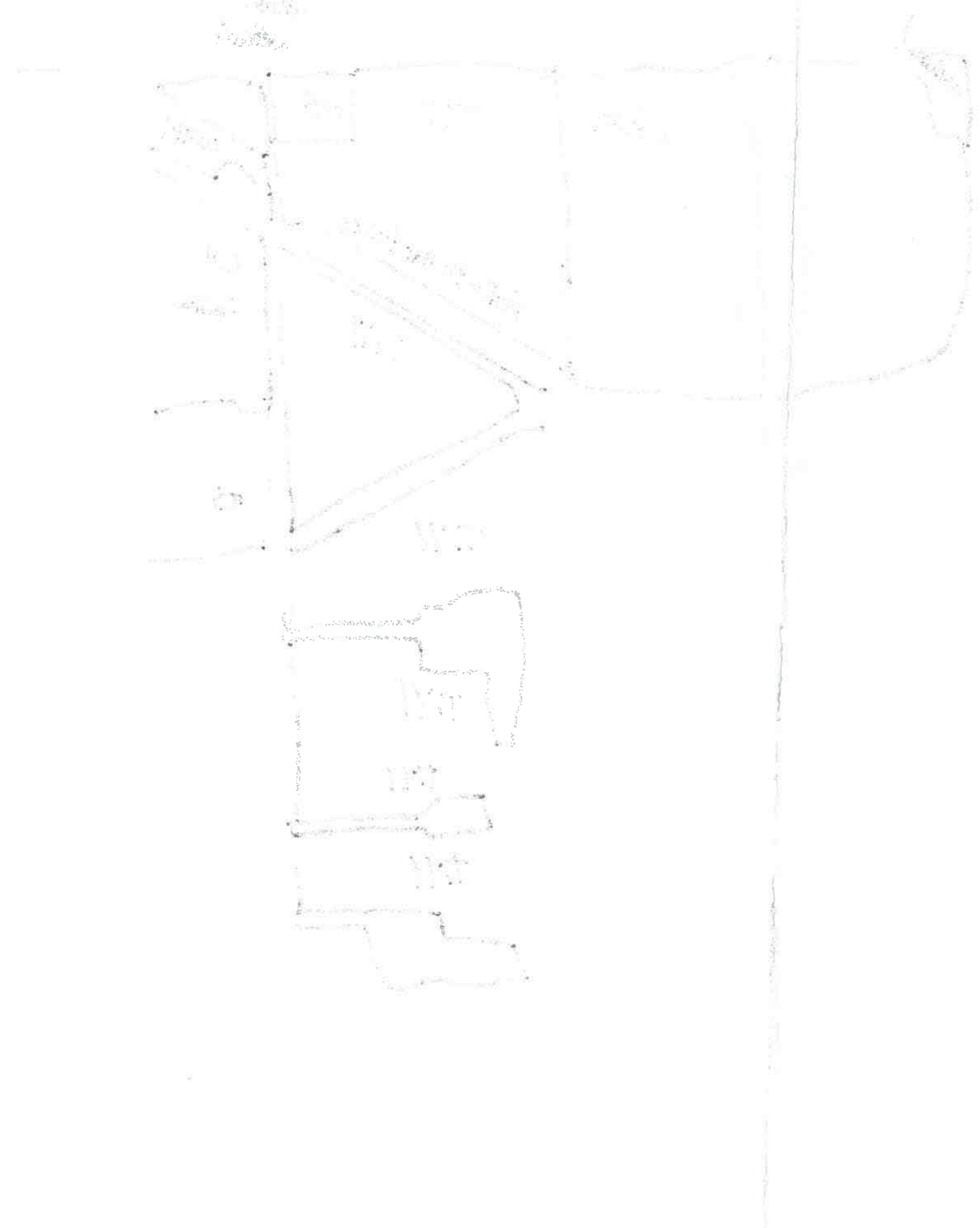
Figure No.  
Tile 8 of 42

Title  
**Project Infrastructure**  
Ver 11 Nov 07



Lelan Pointwind  
tile # 8  
roadside

Handwritten notes at the top of the page, including the word "Lelan" and other illegible text.

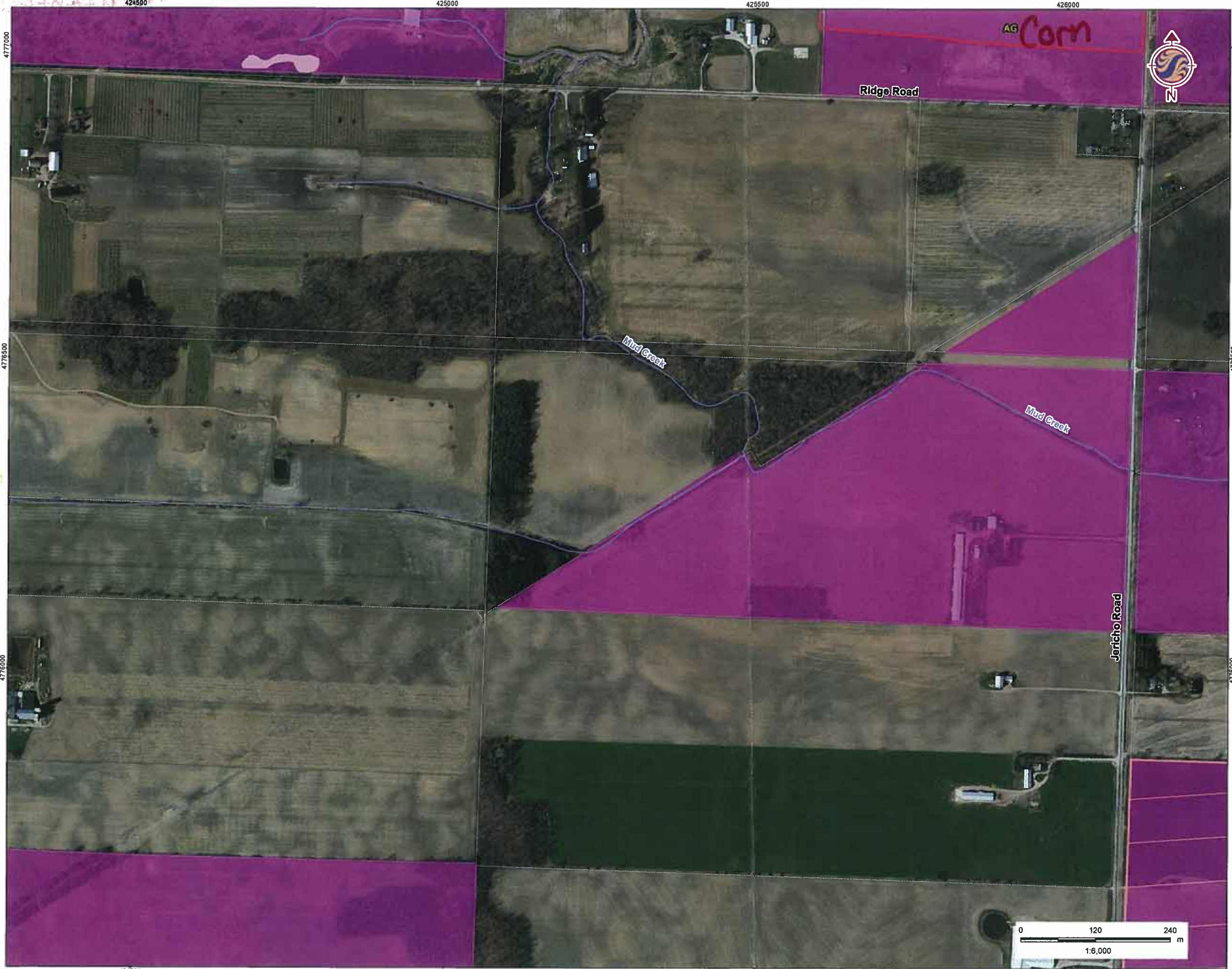


Dec 15<sup>th</sup>





\* Assessed Ag in red



**Legend**

- 120m Zone of Investigation
- Proposed Turbine Location
- MET Tower
- Access Road
- Transmission Line
- Underground Collector Line
- Turbine Laydown Area
- Substation
- Expressway / Highway
- Road
- Watercourse
- Constructed Drain
- Waterbody
- Municipal Boundary
- Property Boundary
- Land Status**
- Optioned Properties (Suncor)
- NextEra Properties
- ELC Status**
- ELC - Need Codes
- ELC - Complete

# DRAFT

**Notes**

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3. Imagery Source- Suncor Energy  
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Imagery Date: 2010



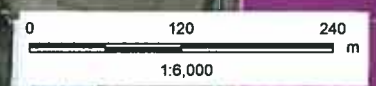
**Stantec**

July, 2012  
160960709

Client/Project  
Suncor Energy  
Cedar Point Wind Project

Figure No.  
Tile 8 of 54

Title  
**Project Infrastructure- Aquatics  
Ver- 12 June 27**



100

Cedar Point ELC  
Tile 8  
July 4, 2012  
C. Payette  
160960709

✓



**ELC**  
 COMMUNITY DESCRIPTION & CLASSIFICATION

SITE: Cedar Point Wind  
 SURVEYOR(S): C. Bayliff  
 DATE: Nov 23, 2011  
 POLYGON: 9-1  
 UTME: \_\_\_\_\_  
 UTMZ: \_\_\_\_\_

**POLYGON DESCRIPTION**

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
<input checked="" type="checkbox"/> TERRESTRIAL <input type="checkbox"/> WETLAND <input type="checkbox"/> AQUATIC	<input type="checkbox"/> ORGANIC <input checked="" type="checkbox"/> MINERAL SOIL <input type="checkbox"/> PARENT MIN. <input type="checkbox"/> ACIDIC BEDRK. <input type="checkbox"/> BASIC BEDRK. <input type="checkbox"/> CARB. BEDRK.	<input type="checkbox"/> LACUSTRINE <input type="checkbox"/> RIVERINE <input type="checkbox"/> BOTTOMLAND <input type="checkbox"/> TERRACE <input type="checkbox"/> VALLEY SLOPE <input type="checkbox"/> TABLELAND <input type="checkbox"/> ROLL. UPLAND <input type="checkbox"/> TALUS <input type="checkbox"/> CREVICE / CAVE <input type="checkbox"/> ALVAR <input type="checkbox"/> ROCKLAND <input type="checkbox"/> BEACH / BAR <input type="checkbox"/> SAND DUNE <input type="checkbox"/> BLUFF	<input type="checkbox"/> NATURAL <input checked="" type="checkbox"/> CULTURAL <input type="checkbox"/> COVER <input type="checkbox"/> OPEN <input type="checkbox"/> SHRUB <input type="checkbox"/> TREED	<input type="checkbox"/> PLANKTON <input type="checkbox"/> SUBMERGED <input type="checkbox"/> FLOATING-LVD. <input type="checkbox"/> GRAMINOID <input type="checkbox"/> FORB <input type="checkbox"/> LICHEN <input type="checkbox"/> BRYOPHYTE <input type="checkbox"/> DECIIDUOUS <input type="checkbox"/> CONIFEROUS <input type="checkbox"/> MIXED	<input type="checkbox"/> LAKE <input type="checkbox"/> POND <input type="checkbox"/> RIVER <input type="checkbox"/> STREAM <input type="checkbox"/> MARSH <input type="checkbox"/> SWAMP <input type="checkbox"/> FEN <input type="checkbox"/> BOG <input type="checkbox"/> MEADOW <input type="checkbox"/> PRAIRIE <input type="checkbox"/> THICKET <input type="checkbox"/> SAVANNAH <input type="checkbox"/> WOODLAND <input type="checkbox"/> FOREST <input type="checkbox"/> PLANTATION

**STAND DESCRIPTION:**

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	2	2	Redstart, P. sp., Am. Redstart, White elm
2 SUB-CANOPY			
3 UNDERSTOREY	3-4	4	gray dogwood, Buckhorn, Redstart
4 GRD. LAYER			grass sp., goldenrod sp., yellow sweet wop

HT CODES: 1=>25m 2=10<HT<25m 3=2<HT<10m 4=1<HT<2m 5=0.5<HT<1m 6=0.2<HT<0.5m 7=HT<0.2m  
 CVR CODES: 0=NONE 1=0<CVR<10% 2=10<CVR<25% 3=25<CVR<50% 4=50<CVR<60% 5=60<CVR<80%

**STAND COMPOSITION:**

SIZE CLASS ANALYSIS: A <10 10-24 R 25-50 N >50  
 STANDING SNAGS: R <10 N 25-50 N >50  
 DEADFALL/LOGS: O <10 N 25-50 N >50  
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT  
 COMM. AGE: PIONEER YOUNG MID-AGE MATURE OLD GROWTH

**SOIL ANALYSIS:**

TEXTURE: \_\_\_\_\_  
 MOISTURE: \_\_\_\_\_  
 HOMOGENEOUS / VARIABLE: \_\_\_\_\_  
 DEPTH TO MOTTLES/GLEY: g= \_\_\_\_\_  
 DEPTH OF ORGANICS: g= \_\_\_\_\_ (cm)  
 DEPTH TO BEDROCK: \_\_\_\_\_ (cm)

**COMMUNITY CLASSIFICATION:**

COMMUNITY CLASS: \_\_\_\_\_  
 COMMUNITY SERIES: \_\_\_\_\_  
 ECOSITE: \_\_\_\_\_  
 VEGETATION TYPE: gray dogwood cultural thicket  
 CODE: CUT-9  
 INCLUSION: \_\_\_\_\_  
 COMPLEX: \_\_\_\_\_

Evidence of Disturbance / Notes: grassy laneway, clearly driven ch, slope

**ELC**  
 COMMUNITY DESCRIPTION & CLASSIFICATION

SITE: Cedar Point Wind  
 POLYGON: 9-1  
 DATE: Nov 23, 2011  
 SURVEYOR(S): C. Bayliff

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER  
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				SPECIES CODE	LAYER			
	1	2	3	4		1	2	3	4
Eastern White Oak	R								
White Oak	R								
Apple sp	R								
Willow sp	R								
Redstart	O								
Am. Redstart	R								
grass sp									
goldenrod sp									
yellow sweet wop									
Com. Redstart									

Quality Control: This form is complete  & legible .  
 Signature: \_\_\_\_\_  
 Signature: \_\_\_\_\_  
 Signature: \_\_\_\_\_

Page \_\_\_ of \_\_\_  
 (Field Personnel)  
 (Project Manager)



**Stantec Consulting Ltd.**  
 1 - 70 Southgate Drive  
 Guelph, ON  
 Canada N1G 4P5  
 Tel: (519) 836-6050  
 Fax: (519) 836-2493

## Woodland & Wildlife Habitat Assessment Form

**Stantec**

Project Number: 160960709

Project Name: Cedar Point Wind

Date: Nov 23, 2011

Field Personnel: C. Bayliffe

Weather Conditions:	TEMP (°C): <u>4</u>	WIND: <u>4</u>	CLOUD: <u>100</u>	PPT: <u>None</u>	PPT (in last 24 hrs): <u>Rain</u>
---------------------	------------------------	-------------------	----------------------	---------------------	--------------------------------------

ELC Polygon: #9-1 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

**Reptile / Bat Hibernacula Features:** Contains potential reptile hibernacula features?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)  
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]  
 Contains potential bat hibernacula features?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)  
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

**Bat Roosting Features:** Contains potential bat roosting features?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)  
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

**Stick Nests:** Contains large stick nests?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

**Seeps/Springs/Vernal Pools:** Contains seeps/springs/vernal pools?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED							
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?	

**SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)**

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scar; SI=other sign; TK=track; VO=vocalization







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## Woodland & Wildlife Habitat Assessment Form

**Stantec**

Project Number: 160960709

Project Name: Cedar Point Wind

Date: Nov 23, 2011

Field Personnel: C. Payette

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	4	4	100	None	Rain

ELC Polygon: #9-2 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

**Reptile / Bat Hibernacula Features:** Contains potential reptile hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]  
 Contains potential bat hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

**Bat Roosting Features:** Contains potential bat roosting features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

**Stick Nests:** Contains large stick nests?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

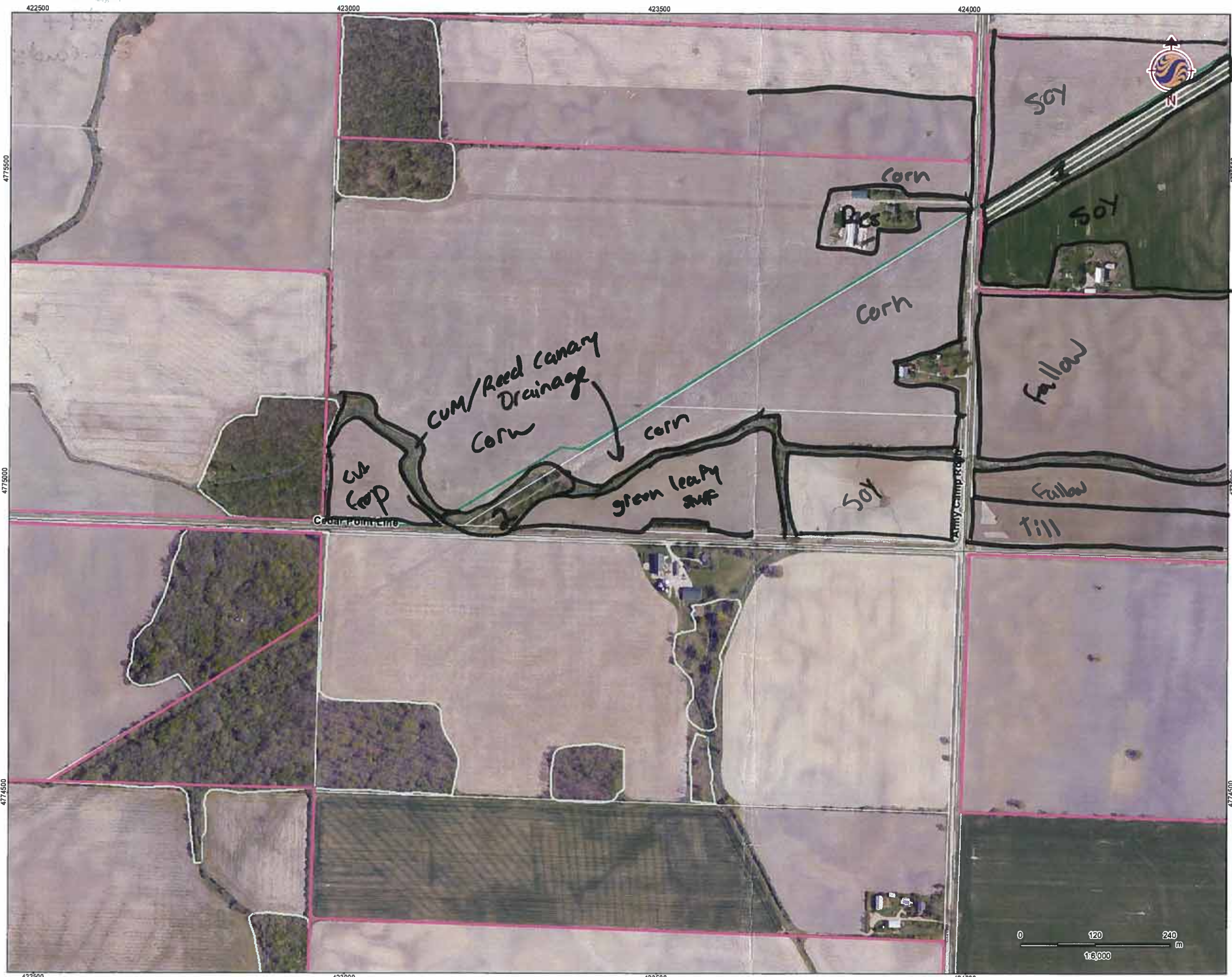
**Seeps/Springs/Vernal Pools:** Contains seeps/springs/vernal pools?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED							
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?	

**SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)**

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scar; SI=other sign; TK=track; VO=vocalization





- Legend**
- 120m Zone of Investigation
  - Proposed Turbine Location
  - MET Tower
  - Culvert Location
  - HD Location
  - Access Road
  - Transmission Line
  - Underground Collector Line
  - Turbine Laydown Area
  - Substation
  - Access Road ROW (40m)
  - Underground Cable ROW (20m)
  - Stage II Archaeological Survey Area
  - Expressway / Highway
  - Road
  - Watercourse
  - Waterbody
  - Municipal Boundary
  - Property Boundary

**DRAFT**

- Notes**
1. Coordinate System: NAD 1983 UTM Zone 17N
  2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
  3. Orthographic imagery provided by St. Clair Conservation Authority © First Base Solutions, 2011. Imagery taken in Spring 2006.



**Stantec**

November, 2011  
160960709

Client/Project  
Suncor Energy  
Cedar Point Wind Project

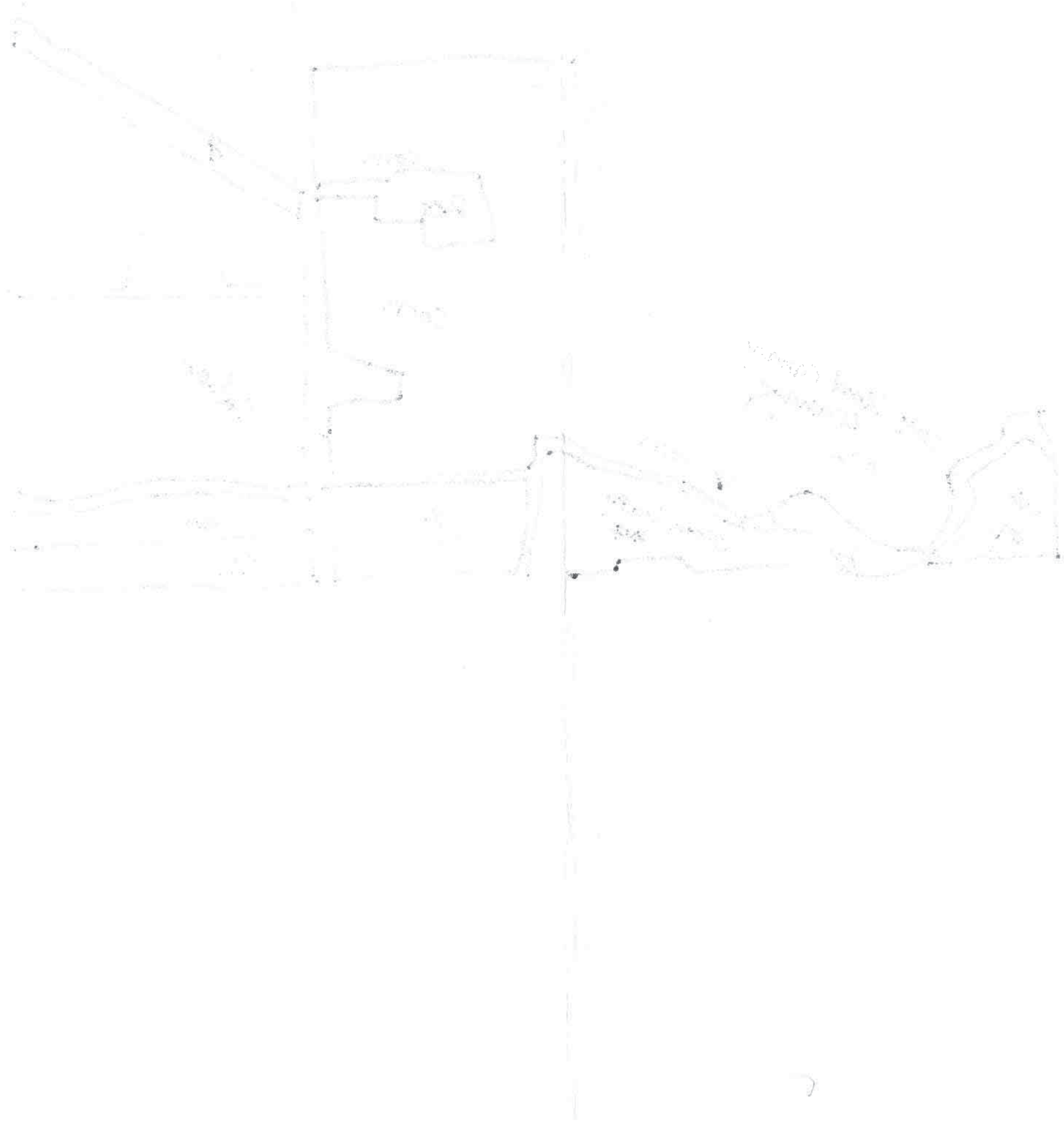
Figure No  
Tile 9 of 42

Title  
**Project Infrastructure**  
Ver 11 Nov 07



Cedar Point  
Tile #9 +  
ELC roads.

Nov 23 - 2011





**ELC**  
 COMMUNITY DESCRIPTION & CLASSIFICATION

SITE: Cedar Point POLYGON: 10-1  
 SURVEYOR(S): DATE: 3/05/2012 UTME:  
 START: 11:45 END: 12:15 UTMZ: UTMN:

**POLYGON DESCRIPTION**

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
<input checked="" type="checkbox"/> TERRESTRIAL	<input type="checkbox"/> ORGANIC	<input type="checkbox"/> LACUSTRINE <input type="checkbox"/> RIVERINE <input type="checkbox"/> BOTTOMLAND	<input type="checkbox"/> NATURAL <input checked="" type="checkbox"/> CULTURAL	<input type="checkbox"/> PLANKTON <input type="checkbox"/> SUBMERGED <input type="checkbox"/> FLOATING-LVD. <input type="checkbox"/> GRAMINOID	<input type="checkbox"/> LAKE <input type="checkbox"/> POND <input type="checkbox"/> RIVER <input type="checkbox"/> STREAM
<input type="checkbox"/> WETLAND	<input type="checkbox"/> MINERAL SOIL	<input type="checkbox"/> TERRACE <input type="checkbox"/> VALLEY SLOPE		<input type="checkbox"/> FORB <input type="checkbox"/> LICHEN <input type="checkbox"/> BRYOPHYTE <input type="checkbox"/> DECIDUOUS <input type="checkbox"/> CONIFEROUS	<input type="checkbox"/> SWAMP <input type="checkbox"/> FEN <input type="checkbox"/> BOG <input type="checkbox"/> BARREN <input type="checkbox"/> MEADOW <input type="checkbox"/> PRAIRIE <input type="checkbox"/> THICKET
<input type="checkbox"/> AQUATIC	<input type="checkbox"/> PARENT MIN.	<input type="checkbox"/> TABLELAND <input type="checkbox"/> ROLL UPLAND <input type="checkbox"/> CLIFF			<input type="checkbox"/> SAVANNAH <input type="checkbox"/> WOODLAND <input type="checkbox"/> FOREST <input type="checkbox"/> PLANTATION
<b>SITE</b>	<input type="checkbox"/> ACIDIC BEDRK. <input type="checkbox"/> BASIC BEDRK. <input type="checkbox"/> CARB. BEDRK.	<input type="checkbox"/> TALUS <input type="checkbox"/> CREVICE / CAVE <input type="checkbox"/> ALVAR <input type="checkbox"/> ROCKLAND <input type="checkbox"/> BEACH / BAR <input type="checkbox"/> SAND DUNE <input type="checkbox"/> BLUFF	<input type="checkbox"/> COVER <input type="checkbox"/> OPEN <input type="checkbox"/> SHRUB <input type="checkbox"/> TREED		
<input type="checkbox"/> OPEN WATER					
<input type="checkbox"/> SHALLOW WATER					
<input checked="" type="checkbox"/> SURFICIAL DEP.					
<input type="checkbox"/> BEDROCK					

**STAND DESCRIPTION:**

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (>>MUCH GREATER THAN; >GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY			
2 SUB-CANOPY			
3 UNDERSTOREY			
4 GRD. LAYER	5-7	4	GRASSES >> TRILEPE

HT CODES: 1=>25m 2=10-4HT<25m 3=2-4HT<10m 4=1-4HT<2m 5=0.5-4HT<1m 6=0.2-4HT<0.5m 7=4HT<0.2m  
 CVR CODES: 0=NONE 1=0%-CVR<10% 2=10%-CVR<25% 3=25%-CVR<50% 4=50%-CVR<60%

**STAND COMPOSITION:**

SIZE CLASS ANALYSIS:	<10	10-24	25-50	>50
STANDING SNAGS:	<10	10-24	25-50	>50
DEADFALL/LOGS:	<10	10-24	25-50	>50

ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT

COMM. AGE: PIONEER YOUNG MID-AGE MATURE OLD GROWTH

**SOIL ANALYSIS:**

TEXTURE: DEPTH TO MOTTLES/GLEY G=

MOISTURE: DEPTH OF ORGANICS: G= (cm)

HOMOGENEOUS / VARIABLE DEPTH TO BEDROCK: (cm)

**COMMUNITY CLASSIFICATION:**

COMMUNITY CLASS: CODE:  
 COMMUNITY SERIES: CODE:  
 ECOSITE: CODE:  
 VEGETATION TYPE: Pasture

INCLUSION CODE:  
 COMPLEX CODE:

Evidence of Disturbance / Notes: hayfield or pasture?

**ELC**  
 COMMUNITY DESCRIPTION & CLASSIFICATION SURVEYOR(S):

SITE: POLYGON:  
 DATE: LAYER: COLL:

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER  
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				SPECIES CODE	LAYER				COLL
	1	2	3	4		1	2	3	4	
					SCHARUN					A
					POA SP					A
					DAGGLOW					A
					TRILEPE					A
					WHEAT					R
					BROWN R					R
					LOT GRN					R

Page \_\_\_ of \_\_\_ Signature: *Nandana* (Field Personnel)  
 Quality Control: This form is complete  & legible  Signature: \_\_\_\_\_ (Project Manager)



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## Woodland & Wildlife Habitat Assessment Form

**Stanter**

Project Number: 160960709

Project Name: Cedar Point

Date: 31/05/2012

Field Personnel: N. Charlton

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>22</u>	<u>2-3</u>	<u>30</u>	<u>—</u>	<u>—</u>

ELC Polygon: # 10- | Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (*indicate on map*)

**Reptile / Bat Hibernacula Features:** Contains potential reptile hibernacula features?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)  
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge-abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]  
 Contains potential bat hibernacula features?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)  
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

**Bat Roosting Features:** Contains potential bat roosting features?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)  
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

**Stick Nests:** Contains large stick nests?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

**Seeps/Springs/Vernal Pools:** Contains seeps/springs/vernal pools?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED							
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?	

**SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)**

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scar; SI=other sign; TK=track; VO=vocalization



**ELC** SITE: Cedar Point POLYGON: 10-2  
 SURVEYOR(S): NC DATE: May 31 TIME:  
 START: 12:45 END: 12:48 UTMZ: UTMN:

**POLYGON DESCRIPTION**

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
TERRESTRIAL	<input type="checkbox"/> ORGANIC	<input type="checkbox"/> FLACUSTRINE	<input checked="" type="checkbox"/> NATURAL	<input type="checkbox"/> FLANKTON	<input type="checkbox"/> LAKE
WETLAND	<input checked="" type="checkbox"/> MINERAL SOIL	<input type="checkbox"/> RIVERINE	<input type="checkbox"/> CULTURAL	<input type="checkbox"/> SUBMERGED	<input type="checkbox"/> POND
AQUATIC	<input type="checkbox"/> PARENT MIN.	<input type="checkbox"/> TERRACE		<input type="checkbox"/> FLOATING-LVD.	<input type="checkbox"/> RIVER
	<input type="checkbox"/> ACIDIC BEDRK.	<input type="checkbox"/> VALLEY SLOPE		<input type="checkbox"/> GRAMINOID	<input type="checkbox"/> STREAM
	<input type="checkbox"/> BASIC BEDRK.	<input type="checkbox"/> TABLELAND		<input type="checkbox"/> FORB	<input type="checkbox"/> MARSH
	<input type="checkbox"/> CARB. BEDRK.	<input type="checkbox"/> ROLL UPLAND		<input type="checkbox"/> BRYOPHYTE	<input type="checkbox"/> SWAMP
	<input type="checkbox"/> OPEN WATER	<input type="checkbox"/> CLIFF		<input type="checkbox"/> DECIDUOUS	<input type="checkbox"/> FEN
	<input type="checkbox"/> SHALLOW	<input type="checkbox"/> TALLUS		<input type="checkbox"/> CONIFEROUS	<input type="checkbox"/> BOG
	<input type="checkbox"/> WATER SURFICIAL DEP. BEDROCK	<input type="checkbox"/> CREVICE / CAVE		<input type="checkbox"/> MIXED	<input type="checkbox"/> BAREEN
		<input type="checkbox"/> ALVAR	<input type="checkbox"/> COVER		<input type="checkbox"/> MEADOW
		<input type="checkbox"/> ROCKLAND	<input type="checkbox"/> OPEN		<input type="checkbox"/> PRAIRIE
		<input type="checkbox"/> BEACH / BAR	<input type="checkbox"/> SHRUB		<input type="checkbox"/> THICKET
		<input type="checkbox"/> SAND DUNE	<input checked="" type="checkbox"/> TREED		<input type="checkbox"/> SAVANNAH
		<input type="checkbox"/> BLUFF			<input type="checkbox"/> WOODLAND
					<input type="checkbox"/> FOREST
					<input checked="" type="checkbox"/> PLANTATION

**LAND DESCRIPTION:**

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
CANOPY	2	3	TILAMEL > FAG-GRAN > ACEASA = CAROVAT
SUB-CANOPY	3	4	FAG-GRAN > OSTVIRG > ACEASA
UNDERSTOREY	4	4	FRAAMEK > ACEASA > CAROVAT
GRD. LAYER	5-7	2	ACEASA > ARITRTR > FAG-GRAN = GERMACA

CODES: 1=25m 2=10-HT<25m 3=2-HT<10m 4=1-HT<2m 5=0.5-HT<1m 6=0.2-HT<0.5m 7=HT<0.2m  
 R CODES: 0=NONE 1=0%-CVR<10% 2=10%-CVR<25% 3=25%-CVR<50% 4=CVR=50%

**AND COMPOSITION:**

CLASS ANALYSIS:	A	<10	A	10-24	0	25-50	R	>50
ANDING SNAGS:								
ADFALL/LOGS:								
UNDANCE CODES:								
MIN. AGE:								
IML ANALYSIS:								
XTURE:								
DEPTH TO MOTTLES/GLEY								
DEPTH OF ORGANICS:								
MOGENEOUS / VARIABLE								
DEPTH TO BEDROCK:								

**IMMUNITY CLASSIFICATION:**

IMMUNITY CLASS:	CODE:
IMMUNITY SERIES:	
OSITE:	
GETATION TYPE:	FOD6 S
INCLUSION	
COMPLEX	

ence of Disturbance / Notes:  
 - evidence of logging (recent)  
 - some trails (vehicle)  
 - birds, disturbed lots of openings

**ELC** SITE: POLYGON:  
 COMMUNITY DESCRIPTION & CLASSIFICATION SURVEYOR(S):  
 DATE: LAYER: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER  
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				SPECIES CODE	LAYER				COLL
	1	2	3	4		1	2	3	4	
FAG-GRAN	0	0	0	0	ARITRTR					0
TILAMEL	A	0			VITRIPA					0
CAR-CORD		R			EPHEL					R
ACEASA	0	A			CIRVUTE					0
CAROVAT	0	0			FAG-VIRG					0
OSTVIRG	R	A			VERAFEL					R
FRAAMEK	0	0			CARGAC					R
PRUSEK				0	GERMACA					A
PRUVIVI					POSONINY					0
					IMPCAPE					R
					ONOSENS					R
					XMAS PCA					R
					GRUM					0
					Stipata-like (S)					0
					Maculata-like (S)					0
					FERYAMER					R
					MENISPERMIUM					R
					SYMPHYD-SP					0

Page \_\_\_ of \_\_\_ Signature: *Nick...* (Field Personnel)  
 Quality Control: This form is complete  & legible  Signature: \_\_\_\_\_ (Project Manager)



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 Fax: (519) 836-2493

## Woodland & Wildlife Habitat Assessment Form

**Stantec**

Project Number: 160960709

Project Name: Cedar Point

Date: 31/05/2012

Field Personnel: N. Charlton

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>22</u>	<u>2-3</u>	<u>30</u>	<u>-</u>	<u>-</u>

ELC Polygon: # 10-2 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

**Reptile / Bat Hibernacula Features:** Contains/potential reptile hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge-abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]  
 Contains/potential bat hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

**Bat Roosting Features:** Contains/potential bat roosting features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

**Stick Nests:** Contains large stick nests?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

STICK NEST(S) IDENTIFIED					
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature

**Seeps/Springs/Vernal Pools:** Contains seeps/springs/vernal pools?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

**SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)**

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scar; SI=other sign; TK=track; VO=vocalization







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## Woodland & Wildlife Habitat Assessment Form

**Stantec**

Project Number: 160960709

Project Name: Cedar Point

Date: May 31, 2012

Field Personnel: N. Charlton

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>22</u>	<u>2-3</u>	<u>30</u>	<u>—</u>	<u>—</u>

ELC Polygon: # 10-3 Assessment Type:  Visual; roadside, no access /  Physical; walk through feature

Extent of Physical Investigation of Feature:  Entire /  Partial, walk through polygon (indicate on map)

**Reptile / Bat Hibernacula Features:**

Contains potential reptile hibernacula features?

-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

[i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]

Contains potential bat hibernacula features?

-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

[i.e. karst topography, abandoned mines or caves]

**POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED**

UTM	Feature Description	Photo No.	Spp. Observed Using Feature

**Bat Roosting Features:**

Contains potential bat roosting features?

-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

[i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

**POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED**

UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

**Stick Nests:**

Contains large stick nests?

-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

**STICK NEST(S) IDENTIFIED**

UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature

**Seeps/Springs/Vernal Pools:**

Contains seeps/springs/vernal pools?

-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

**SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED**

UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?
<u>entire polygon</u>	<u>pools</u>		<u>dry</u>		<u>grasses mainly</u>	<input checked="" type="checkbox"/>

**SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)**







Stantec Consulting Ltd.  
1 - 70 Southgate Drive  
Guelph, ON  
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Tel: (519) 836-6050  
Fax: (519) 836-2493

## Woodland & Wildlife Habitat Assessment Form

**Stantec**

Project Number: 160960709

Project Name: Cedar Point

Date: May 31, 2012

Field Personnel: N. Charlton

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>22</u>	<u>2-3</u>	<u>50</u>	<u>-</u>	<u>✓</u>

ELC Polygon: #10-5 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (*indicate on map*)

**Reptile / Bat Hibernacula Features:** Contains potential reptile hibernacula features?  
-Y\* / -N / -Unknown, no access (*"if yes, describe in table below"*)  
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]  
 Contains potential bat hibernacula features?  
-Y\* / -N / -Unknown, no access (*"if yes, describe in table below"*)  
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

**Bat Roosting Features:** Contains potential bat roosting features?  
-Y\* / -N / -Unknown, no access (*"if yes, describe in table below"*)  
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

**Stick Nests:** Contains large stick nests?  
-Y\* / -N / -Unknown, no access (*"if yes, describe in table below"*)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

**Seeps/Springs/Vernal Pools:** Contains seeps/springs/vernal pools?  
-Y\* / -N / -Unknown, no access (*"if yes, describe in table below"*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

**SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)**

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HQ=house/den; OB=observed; SC=scar; SI=other sign; TK=track; VO=vocalization



**ELC** SITE: Cedar Point POLYGON: 10-4  
 SURVEYOR(S): NC DATE: May 3, 2012 UTMZ: UTMN:  
 START: 1:30 END: 2:00 UTMZ: UTMN:

**OLYGN DESCRIPTION**

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
TERRESTRIAL	<input type="checkbox"/> ORGANIC	<input type="checkbox"/> LAQUSTRINE	<input checked="" type="checkbox"/> NATURAL	<input type="checkbox"/> PLANKTON	<input type="checkbox"/> LAKE
WETLAND	<input checked="" type="checkbox"/> MINERAL SOIL	<input type="checkbox"/> RIVERINE	<input type="checkbox"/> CULTURAL	<input type="checkbox"/> SUBMERGED	<input type="checkbox"/> POND
AQUATIC	<input type="checkbox"/> PARENT MIN.	<input type="checkbox"/> BOTTOMLAND		<input type="checkbox"/> FLOATING-LVD.	<input type="checkbox"/> RIVER
	<input type="checkbox"/> ACIDIC BEDRK.	<input type="checkbox"/> TERRACE		<input type="checkbox"/> GRAMINOID	<input type="checkbox"/> STREAM
	<input type="checkbox"/> BASIC BEDRK.	<input type="checkbox"/> VALLEY SLOPE		<input type="checkbox"/> FORB	<input checked="" type="checkbox"/> SWAMP
	<input type="checkbox"/> CARB. BEDRK.	<input type="checkbox"/> TABLELAND		<input type="checkbox"/> LICHEN	<input type="checkbox"/> FEN
		<input type="checkbox"/> ROLL- UPLAND		<input type="checkbox"/> BRYOPHYTE	<input type="checkbox"/> BOG
		<input type="checkbox"/> CLIFF		<input type="checkbox"/> DECIDUOUS	<input type="checkbox"/> MEADOW
		<input type="checkbox"/> TALUS	<input type="checkbox"/> COVER	<input type="checkbox"/> CONIFEROUS	<input type="checkbox"/> PRAIRIE
		<input type="checkbox"/> CREVICE / CAVE	<input type="checkbox"/> OPEN	<input type="checkbox"/> MIXED	<input type="checkbox"/> THICKET
SHALLOW WATER	<input type="checkbox"/> ALVAR	<input type="checkbox"/> ROCKLAND	<input type="checkbox"/> SHRUB		<input type="checkbox"/> SAVANNAH
WATER SURFICIAL DEP. BEDROCK	<input type="checkbox"/> BEACH / BAR	<input type="checkbox"/> BEACH / BAR	<input checked="" type="checkbox"/> TREED		<input type="checkbox"/> WOODLAND
	<input type="checkbox"/> SAND DUNE	<input type="checkbox"/> SAND DUNE			<input type="checkbox"/> FOREST
	<input type="checkbox"/> BLUFF	<input type="checkbox"/> BLUFF			<input type="checkbox"/> PLANTATION

**TAND DESCRIPTION:**

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (>= MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
CANOPY	2	3	FRAPENN > CAROVAT > TILAMER
SUB-CANOPY	3	4	FRAPENN > CAROVAT > CARCARO
UNDERSTOREY	4	3	FRAPENN > CARCARO
GRD. LAYER	5	3	GERMACY > CAREX spp > SYMPHYO spp

1=25m 2=10-4HT<25m 3=2-4HT<10m 4=1-4HT<5m 5=0.5-4HT<1m 6=0.2-4HT<0.5m 7=HT<0.2m  
 0=NONE 1=0%-CVR<10% 2=10-CVR<25% 3=25-CVR<50% 4=50-CVR<80% 5=80-CVR<100%

**TAND COMPOSITION:**

ZE CLASS ANALYSIS:	<10	10 - 24	25 - 50	>50
ANDING SNAGS:	A	A	0	N
ADFALL LOGS:	A	A	0	N
UNDANCE CODES:	N=NONE	R=RARE	O=OCCASIONAL	A=ABUNDANT

MIN. AGE:  PIONEER  YOUNG  MID-AGE  MATURE  OLD GROWTH

**IL ANALYSIS:**

XTURE: DEPTH TO MOTTLES/GLEY: 3=

XTURE: DEPTH OF ORGANICS: 3= (cm)

MOGENEOUS / VARIABLE DEPTH TO BEDROCK: (cm)

**MMUNITY CLASSIFICATION:**

MMUNITY CLASS: CODE: SWD2-2

MMUNITY SERIES: CODE: SWD2-2

OSITE: CODE: SWD2-2

GETATION TYPE: Greenish mineral rich swamph

INCLUSION: CODE: SWD2-2

COMPLEX: CODE: SWD2-2

idence of Disturbance / Notes: vernal pooling > 20%

**ELC** SITE: POLYGON:  
 COMMUNITY DESCRIPTION & CLASSIFICATION: DATE:  
 SURVEYOR(S):

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER  
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				SPECIES CODE	LAYER				COLL
	1	2	3	4		1	2	3	4	
FRAPENN	A				GERMACY					
CAROVAT	A				CAROVAT					
TILAMER	0				GERMACY					
CARCARO	0				CAROVAT					
CRAETHGWS	0/2				CAREX spp					
					SYMPHYO spp					
					GERMACY					
					CAREX spp					
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					GERMACY					



Stantec Consulting Ltd.  
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Tel: (519) 836-6050  
Fax: (519) 836-2493

## Woodland & Wildlife Habitat Assessment Form

**Stantec**

Project Number: 160960709

Project Name: Cedar Point

Date: May 31, 2012

Field Personnel: N. Charlton

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>22</u>	<u>2-3</u>	<u>30</u>	<u>—</u>	<u>—</u>

ELC Polygon: # 10-4 Assessment Type:  Visual; roadside, no access /  Physical; walk through feature

Extent of Physical investigation of Feature:  Entire /  Partial, walk through polygon (indicate on map)

**Reptile / Bat Hibernacula Features:** Contains potential reptile hibernacula features?  
 Y\* /  N /  Unknown, no access (\*if yes, describe in table below)  
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]  
 Contains potential bat hibernacula features?  
 Y\* /  N /  Unknown, no access (\*if yes, describe in table below)  
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

**Bat Roosting Features:** Contains potential bat roosting features?  
 Y\* /  N /  Unknown, no access (\*if yes, describe in table below)  
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

**Stick Nests:** Contains large stick nests?  
 Y\* /  N /  Unknown, no access (\*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

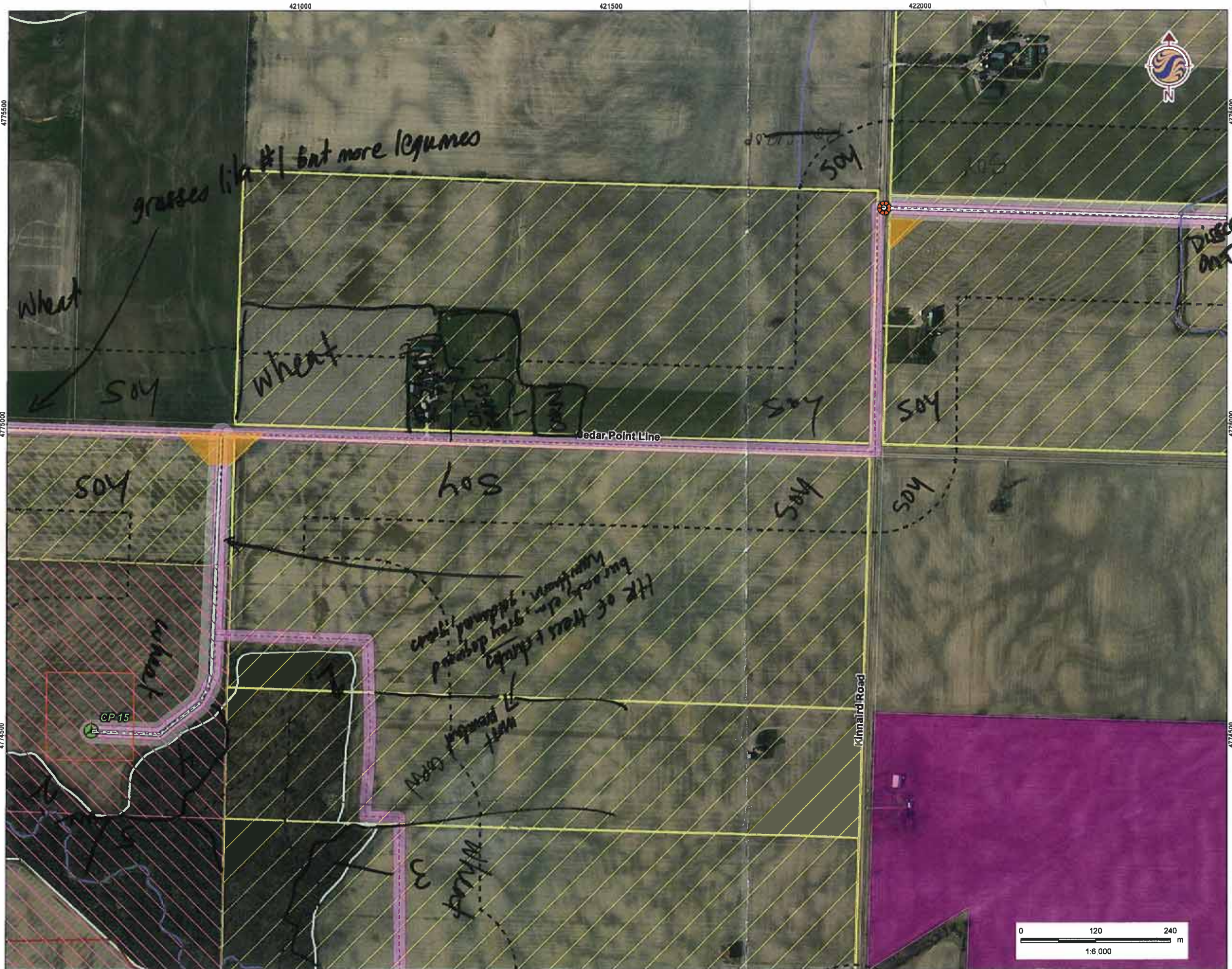
**Seeps/Springs/Vernal Pools:** Contains seeps/springs/vernal pools?  
 Y\* /  N /  Unknown, no access (\*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?
<u>throughout</u>	<u>pools</u>		<u>dry</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

**SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)**

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scar; SI=other sign; TK=track; VO=vocalization





**Legend**

- 120m Zone of Investigation
- Proposed Turbine Location
- MET Tower
- Culvert Location
- HD Location
- Access Road
- Transmission Line
- Underground Collector Line
- Turbine Laydown Area
- Substation
- Expressway / Highway
- Road
- Watercourse
- Constructed Drain
- Waterbody
- Municipal Boundary
- Property Boundary
- Surveyed Areas (Archeology)
- Land Status**
- Optioned Properties (Suncor)
- Forest Lands
- NextEra Properties
- Optioned Properties (Eirin)

All in 120

**DRAFT**

**Notes**

1. Coordinate System: NAD 1983 UTM Zone 17N
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3. Imagery Source- Suncor Energy Includes Material © 2011 of the Queens printer for Ontario. All rights reserved. Imagery Date: 2010



**Stantec**

Started 11.45

May, 2012  
160960709

Client/Project  
Suncor Energy  
Cedar Point Wind Project

Figure No.  
Tile 10 of 54

Title  
**Project Infrastructure**  
**Ver- 12 May 07**



11/17  
081

tile 10

11/17  
081



11/17  
081

11/17  
081





- Legend**
- 120m ZIO
  - Proposed Turbine Location
  - MET Tower
  - Culvert Location
  - HD Location
  - Access Road
  - Transmission Line
  - Underground Collector Line
  - Turbine Blade Tip
  - Turbine Laydown Area
  - Access Road ROW (40m)
  - Underground Cable ROW (20m)
  - Transmission Line ROW
  - Substation
  - Stage II Archaeological Survey Area
  - Expressway / Highway
  - Road
  - Watercourse
  - Waterbody
  - Municipal Boundary
  - Optioned Property
  - Property Boundary

**DRAFT**

- Notes**
1. Coordinate System: NAD 1983 UTM Zone 17N
  2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011.
  3. Orthographic imagery provided by St. Clair Conservation Authority © First Base Solutions, 2011. Imagery taken in Spring 2006.



**Stantec**

December, 2011  
160960709

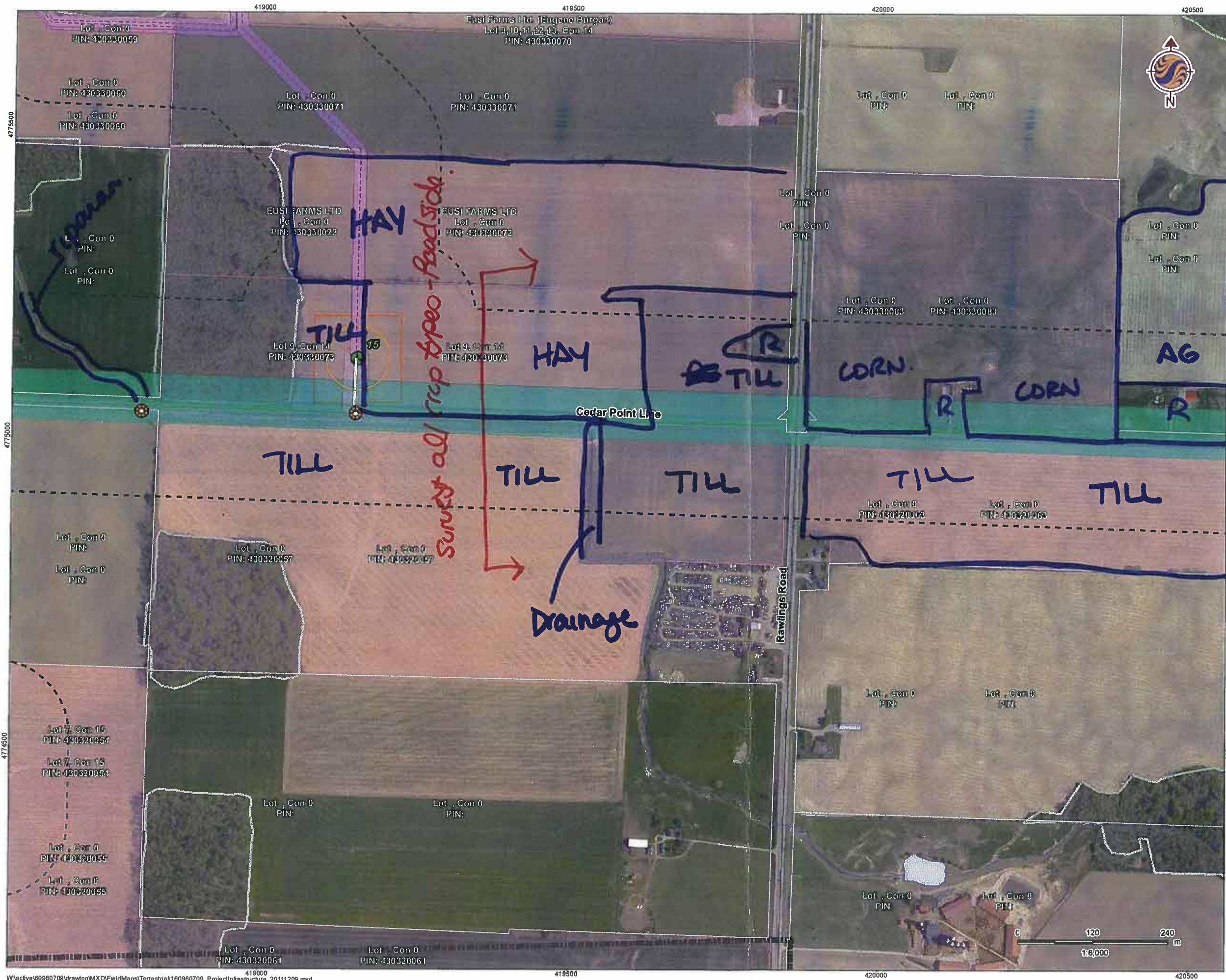
Client/Project  
Suncor Energy  
Cedar Point Wind Project

Figure No.  
Tile 10 of 44

Title  
**Project Infrastructure  
Ver- 11 Nov 15 Rev 1**







- ### Legend
- 120m ZIO
  - Proposed Turbine Location
  - MET Tower
  - Culvert Location
  - HD Location
  - Access Road
  - Transmission Line
  - Underground Collector Line
  - Turbine Blade Tip
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  - Access Road ROW (40m)
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  - Transmission Line ROW
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  - Stage II Archaeological Survey Area
  - Expressway / Highway
  - Road
  - Watercourse
  - Waterbody
  - Municipal Boundary
  - Optioned Property
  - Property Boundary

# DRAFT

- ### Notes
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  3. Orthographic imagery provided by St. Clair Conservation Authority © First Base Solutions, 2011. Imagery taken in Spring 2006.



**Stantec**

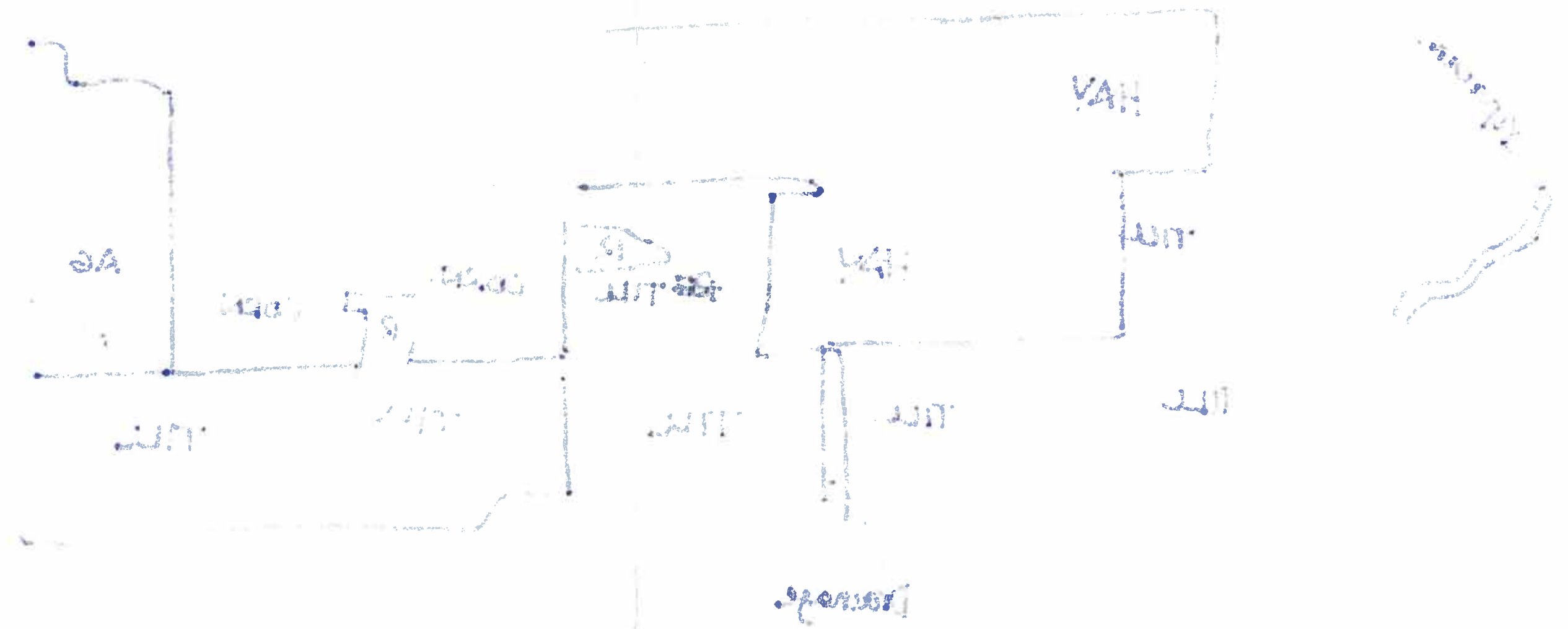
December, 2011  
160960709

Client/Project  
Suncor Energy  
Cedar Point Wind Project

Figure No  
Tile 11 of 44

Title  
**Project Infrastructure**  
**Ver- 11 Nov 15 Rev 1**

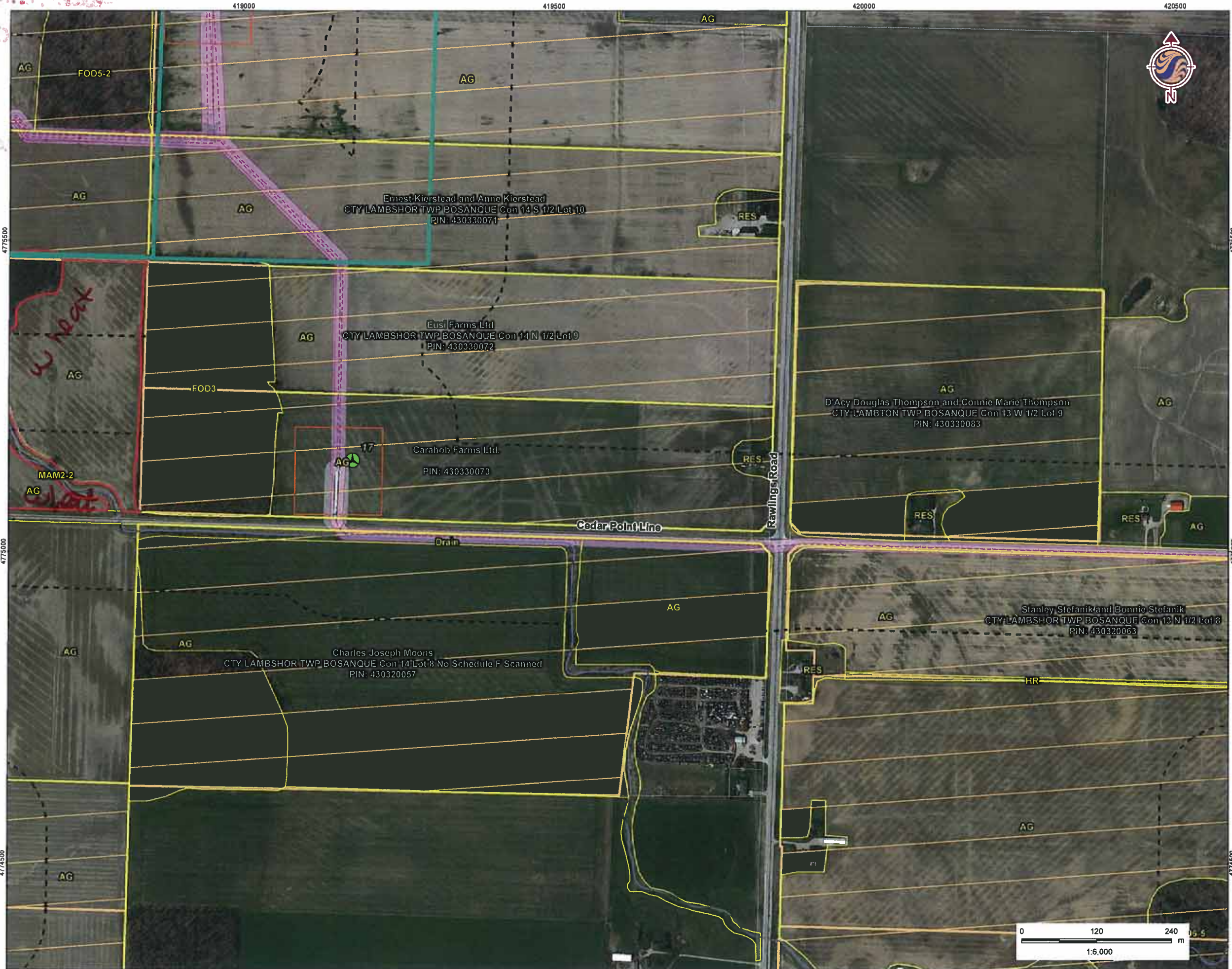




Dec



Assess Ag in red



**Legend**

- 120m Zone of Investigation
- Proposed Turbine Location
- MET Tower
- Access Road
- Transmission Line
- Underground Collector Line
- Turbine Laydown Area
- Substation
- Expressway / Highway
- Road
- Watercourse
- Constructed Drain
- Waterbody
- Municipal Boundary
- Property Boundary
- Land Status**
- Optioned Properties (Suncor)
- NextEra Properties
- ELC Status**
- ELC - Need Codes
- ELC - Complete

**DRAFT**

**Notes**

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011. ©Lambton County 2011.
3. Imagery Source- Suncor Energy  
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Imagery Date: 2010



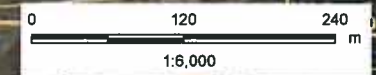
**Stantec**

July, 2012  
160960709

Client/Project  
Suncor Energy  
Cedar Point Wind Project

Figure No.  
Tile 11 of 54

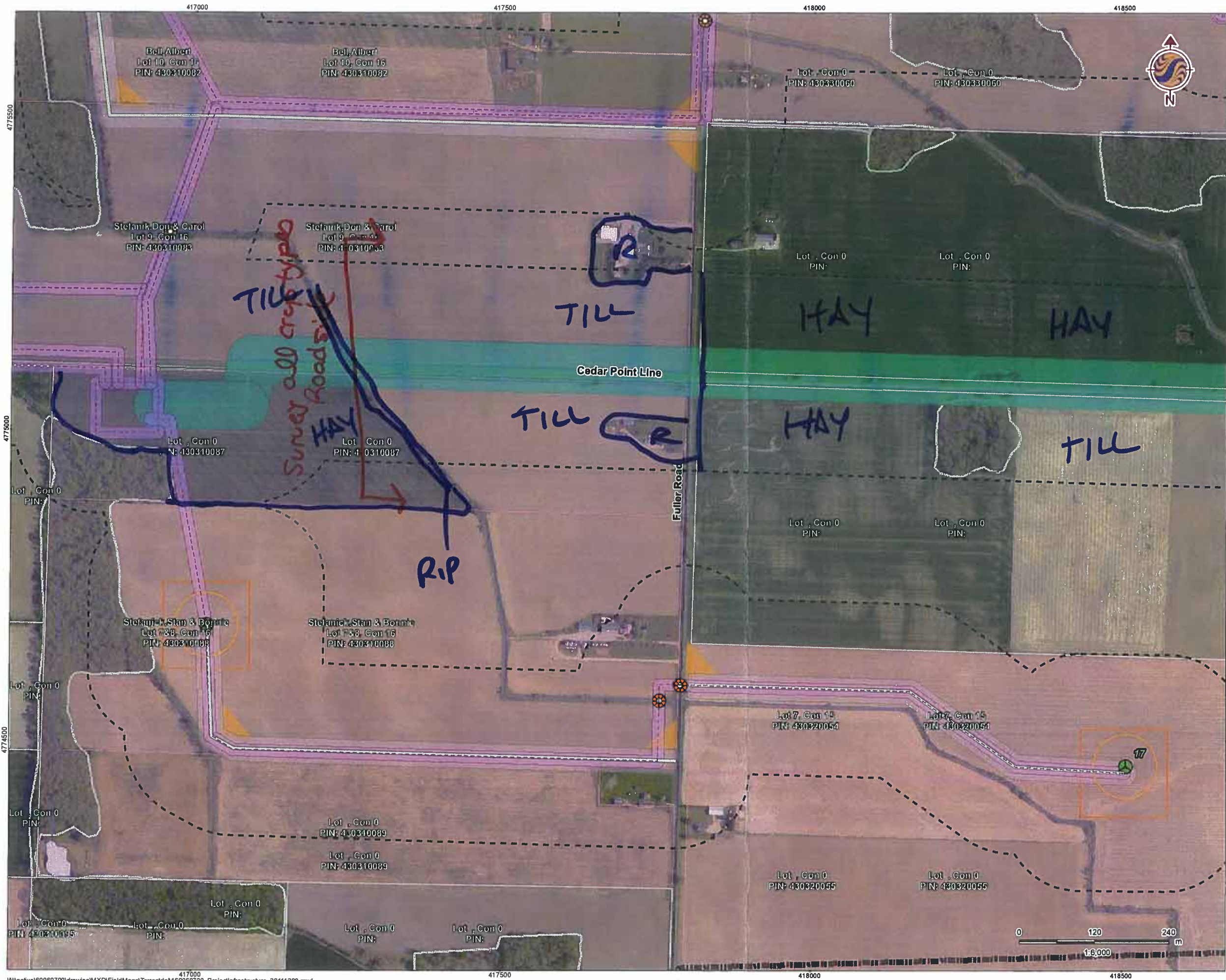
Title  
**Project Infrastructure- Aquatics  
Ver- 12 June 27**





Caden Point ELI  
July 4, 2012  
Tile 11  
C. Payette  
160960709





**Legend**

- 120m ZIO
- Proposed Turbine Location
- MET Tower
- Culvert Location
- HD Location
- Access Road
- Transmission Line
- Underground Collector Line
- Turbine Blade Tip
- Turbine Laydown Area
- Access Road ROW (40m)
- Underground Cable ROW (20m)
- Transmission Line ROW
- Substation
- Stage II Archaeological Survey Area
- Expressway / Highway
- Road
- Watercourse
- Waterbody
- Municipal Boundary
- Optioned Property
- Property Boundary

**DRAFT**

**Notes**

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2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011
3. Orthographic imagery provided by St. Clair Conservation Authority © First Base Solutions, 2011. Imagery taken in Spring 2006.



**Stantec**

December, 2011  
160960709

Client/Project  
Suncor Energy  
Cedar Point Wind Project

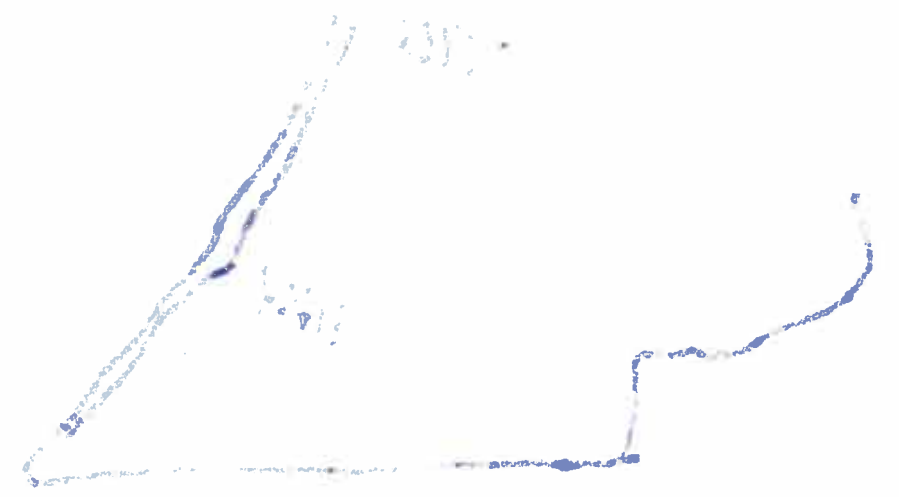
Figure No.  
Tile 12 of 44

Title  
**Project Infrastructure**  
**Ver- 11 Nov 15 Rev 1**

Cedar Point  
Tile 12  
160960709

11/11/12  
11/11/12

11/11/12  
11/11/12



11/11/12

Dec













**Stantec Consulting Ltd.**  
 1 - 70 Southgate Drive  
 Guelph, ON  
 Canada N1G 4P5  
 Tel: (519) 836-6050  
 Fax: (519) 836-2493

**Stantec**

## Woodland & Wildlife Habitat Assessment Form

Project Number: Tile 21

Project Name: Cedar Point

Date: Nov-8/11

Field Personnel: S.A.M.

Weather Conditions:	TEMP (°C): <u>18</u>	WIND: <u>2</u>	CLOUD: <u>70</u>	PPT: <u>  </u>	PPT (in last 24 hrs): <u>  </u>
---------------------	-------------------------	-------------------	---------------------	-------------------	------------------------------------

ELC Polygon: # \_\_\_\_\_ Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (*indicate on map*)

**Reptile / Bat Hibernacula Features:** Contains potential reptile hibernacula features?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)  
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]

Contains potential bat hibernacula features?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)  
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

**Bat Roosting Features:** Contains potential bat roosting features?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)  
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

**Stick Nests:** Contains large stick nests?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

**Seeps/Springs/Vernal Pools:** Contains seeps/springs/vernal pools?  
-Y\* / -N / -Unknown, no access (*\*if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

**SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)**

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scat; SI=other sign; TK=track; VO=vocalization











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 Fax: (519) 836-2493

## Woodland & Wildlife Habitat Assessment Form

**Stantec**

Project Number: Tile 12

Project Name: Cedar Point

Date: Nov. 9/11

Field Personnel: S.A.M.

Weather Conditions:	TEMP (°C): <u>20</u>	WIND: <u>1-2</u>	CLOUD: <u>70</u>	PPT: <u>-</u>	PPT (in last 24 hrs): <u>-</u>
---------------------	-------------------------	---------------------	---------------------	------------------	-----------------------------------

ELC Polygon: # ① Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

**Reptile / Bat Hibernacula Features:** Contains potential reptile hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]  
 Contains potential bat hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

**Bat Roosting Features:** Contains potential bat roosting features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

**Stick Nests:** Contains large stick nests?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

**Seeps/Springs/Vernal Pools:** Contains seeps/springs/vernal pools?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

**SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)**

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scat; SI=other sign; TK=track; VO=vocalization









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## Woodland & Wildlife Habitat Assessment Form

**Stantec**

Project Number: Tile 12  
 Date: Nov. 9/11

Project Name: Cedar Point  
 Field Personnel: S.A.M.

Weather Conditions:	TEMP (°C): <u>20</u>	WIND: <u>1</u>	CLOUD: <u>70</u>	PPT: <u>-</u>	PPT (in last 24 hrs): <u>-</u>
---------------------	-------------------------	-------------------	---------------------	------------------	-----------------------------------

ELC Polygon: # (2) Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

**Reptile / Bat Hibernacula Features:** Contains potential reptile hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]  
 Contains potential bat hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

**Bat Roosting Features:** Contains potential bat roosting features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities
		<u>BurOak</u>	<u>115cm</u>	<u>103365373</u>	<u>1-2</u>	<u>1-2</u>	<u>15+m</u>

**Stick Nests:** Contains large stick nests?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

**Seeps/Springs/Vernal Pools:** Contains seeps/springs/vernal pools?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED							
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?	
<u>418 282 / 4774989</u>	<u>Vernal Pools</u>	<u>2 + metres</u>	<u>2</u>	<u>103365-373</u>	<u>?</u>	<u>?</u>	

**SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)**

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scat; SI=other sign; TK=track; VO=vocalization













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**Stantec**

## Woodland & Wildlife Habitat Assessment Form

Project Number: Title 3

Project Name: Cedar Pt.

Date: Nov-9/11

Field Personnel: S.A.M.

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	19	1	70	\	\

ELC Polygon: # 3 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

**Reptile / Bat Hibernacula Features:** Contains potential reptile hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]  
 Contains potential bat hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

**Bat Roosting Features:** Contains potential bat roosting features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

**Stick Nests:** Contains large stick nests?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

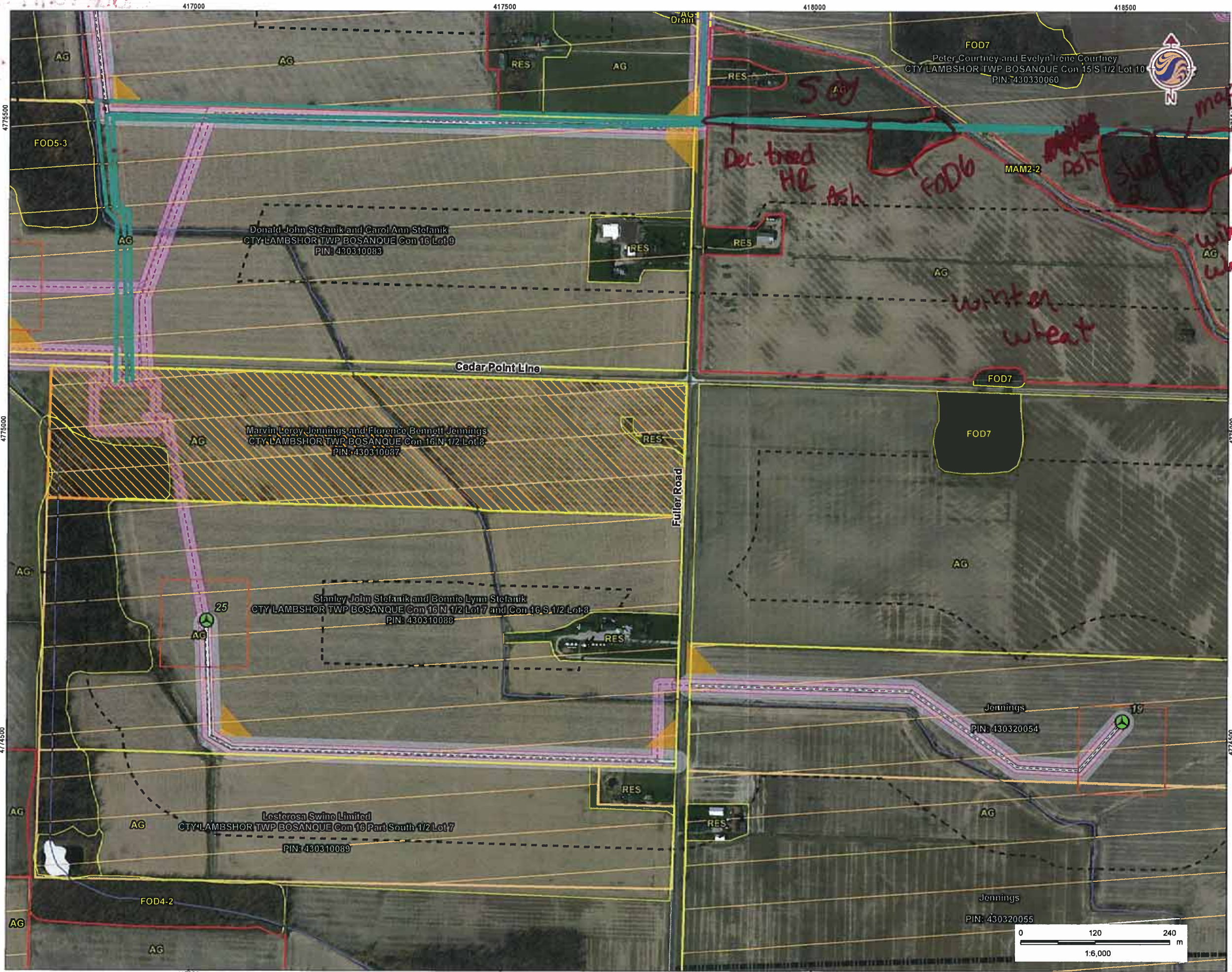
**Seeps/Springs/Vernal Pools:** Contains seeps/springs/vernal pools?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

**SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)**

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scat; SI=other sign; TK=track; VO=vocalization





**Legend**

- 120m Zone of Investigation
- Proposed Turbine Location
- MET Tower
- Access Road
- Transmission Line
- Underground Collector Line
- Turbine Laydown Area
- Substation
- Expressway / Highway
- Road
- Watercourse
- Constructed Drain
- Waterbody
- Municipal Boundary
- Property Boundary
- Land Status**
- Optioned Properties (Suncor)
- NextEra Properties
- ELC Status**
- ELC - Need Codes
- ELC - Complete

\* Assess Aginned & redwood lots from property boundary

**DRAFT**

**Notes**

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**Stantec**

July, 2012  
160960709

Client/Project  
Suncor Energy  
Cedar Point Wind Project

Figure No.  
Tile 12 of 54

Title  
**Project Infrastructure- Aquatics  
Ver- 12 June 27**



Cedar Point EIC  
Tile 12  
July 4, 2012  
C. Payette  
160960709







**Legend**

- 120m Zone of Investigation
- Proposed Turbine Location
- MET Tower
- Culvert Location
- HD Location
- Access Road
- Transmission Line
- Underground Collector Line
- Turbine Laydown Area
- Substation
- Expressway / Highway
- Road
- Watercourse
- Constructed Drain
- Waterbody
- Municipal Boundary
- Property Boundary
- Surveyed Areas (Archeology)
- Land Status**
- Optioned Properties (Suncor)
- Forest Lands
- NextEra Properties
- Optioned Properties (Eirin)

Road  
to  
turbine  
has moved

DRAFT

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May, 2012  
160960709

Client/Project  
Suncor Energy  
Cedar Point Wind Project

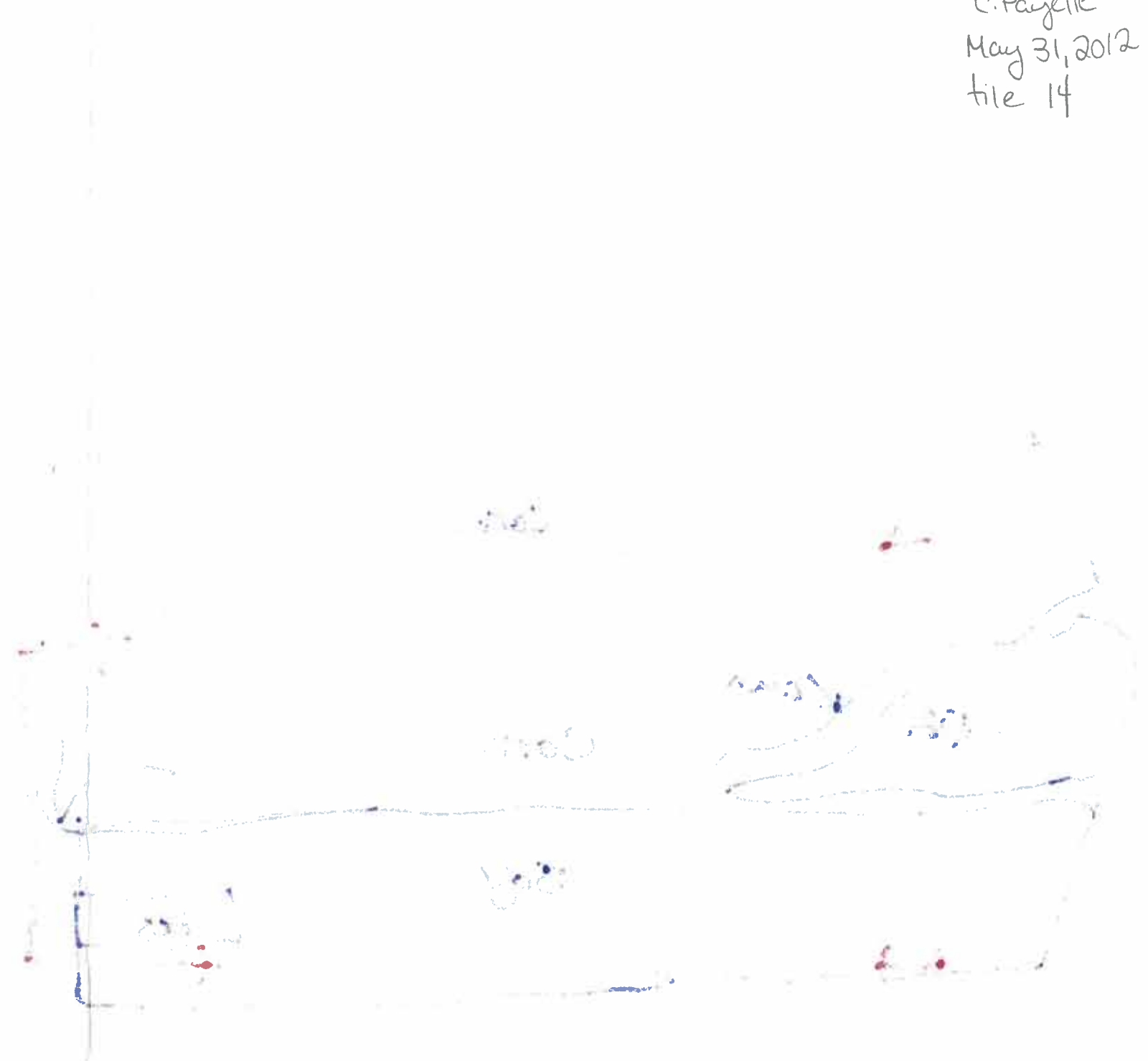
Figure No.  
Tile 14 of 54

Title  
**Project Infrastructure**  
Ver- 12 May 07



been  
of  
. . .  
. . .  
. . .

Cedar Point WF  
160960709  
ELC  
C. Payette  
May 31, 2012  
file 14









Cedar Point ELC  
Tile 14  
July 4, 2012  
160960709  
C. Payette

5/11/12

5/11/12

5/11/12





- Legend**
- 120m Zone of Investigation
  - Proposed Turbine Location
  - MET Tower
  - Access Road
  - Transmission Line
  - Underground Collector Line
  - Turbine Laydown Area
  - Substation
  - Expressway / Highway
  - Road
  - Watercourse
  - Constructed Drain
  - Waterbody
  - Municipal Boundary
  - Property Boundary
  - Land Status**
  - Optioned Properties (Suncor)
  - NextEra Properties
  - ELC Status**
  - ELC - Need Codes
  - ELC - Complete

# DRAFT

- Notes**
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**Stantec**

July, 2012  
160960709

Client/Project  
Suncor Energy  
Cedar Point Wind Project

Figure No.  
Tile 15 of 54

Title  
**Project Infrastructure- Aquatics  
Ver- 12 June 27**

see tile 16



Cedar Point ELC  
tile 15  
July 4, 2012  
C. Payne HC  
160960709





**Legend**

- 120m Zone of Investigation
- Proposed Turbine Location
- MET Tower
- Access Road
- Transmission Line
- Underground Collector Line
- Turbine Laydown Area
- Substation
- Expressway / Highway
- Road
- Watercourse
- Constructed Drain
- Waterbody
- Municipal Boundary
- Property Boundary
- Land Status**
- Optioned Properties (Suncor)
- NextEra Properties
- ELC Status**
- ELC - Need Codes
- ELC- Complete

\* Assesed Ag in red.

**DRAFT**

**Notes**

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July, 2012  
160960709

Client/Project  
Suncor Energy  
Cedar Point Wind Project

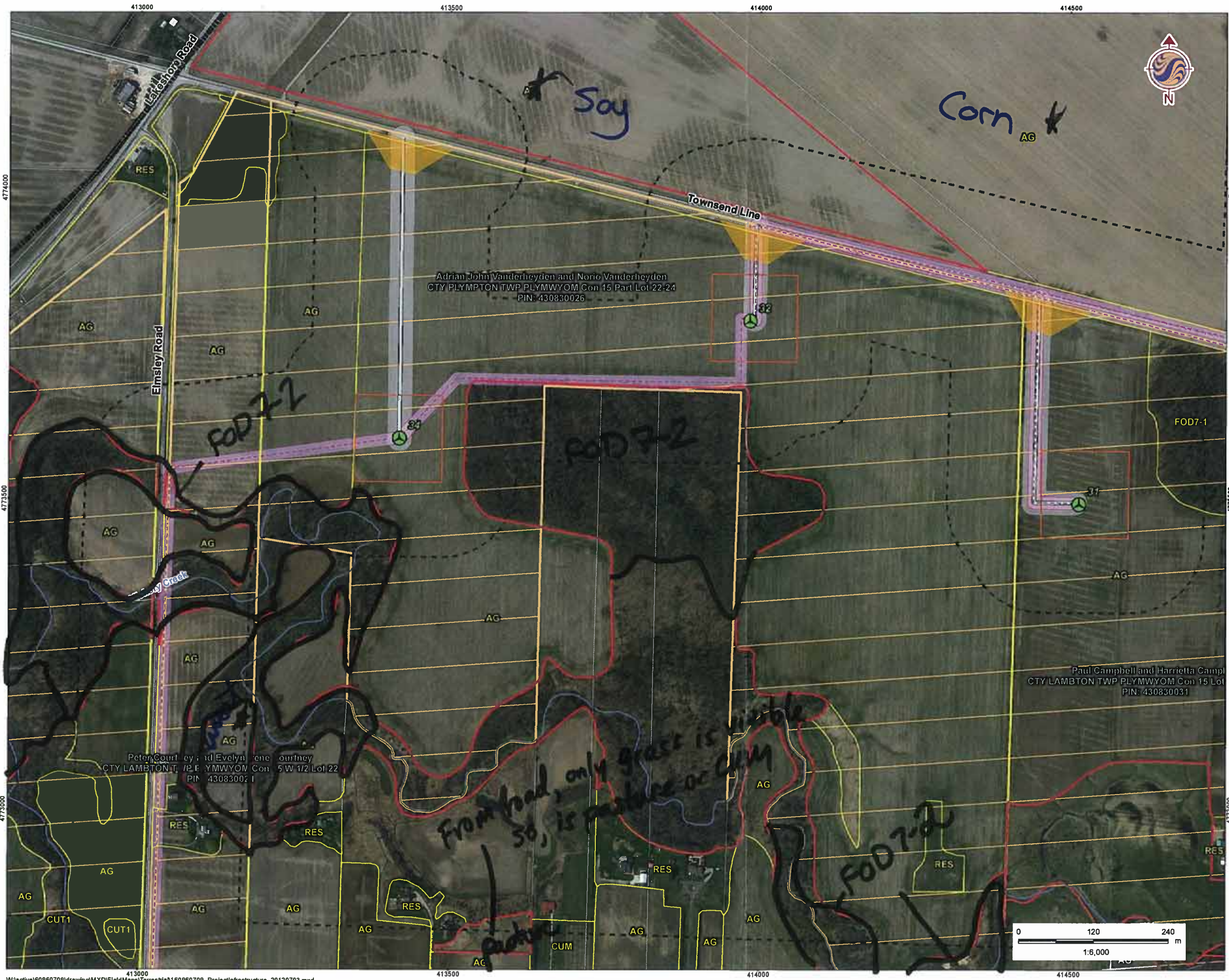
Figure No.  
Tile 16 of 54

Title  
**Project Infrastructure- Aquatics  
Ver- 12 June 27**



Cedar Point ELC  
Tile 16  
July 4, 2012  
C. Payette  
160960709





**Legend**

- 120m Zone of Investigation
- Proposed Turbine Location
- MET Tower
- Access Road
- Transmission Line
- Underground Collector Line
- Turbine Laydown Area
- Substation
- Expressway / Highway
- Road
- Watercourse
- Constructed Drain
- Waterbody
- Municipal Boundary
- Property Boundary
- Land Status**
- Optioned Properties (Suncor)
- NextEra Properties
- ELC Status**
- ELC - Need Codes
- ELC - Complete

*Assess all red areas - Full ELC where possible*

*AG in center & at top*

**DRAFT**

**Notes**

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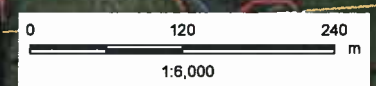
**Stantec**

July, 2012  
160960709

Client/Project  
Suncor Energy  
Cedar Point Wind Project

Figure No.  
Tile 17 of 54

Title  
**Project Infrastructure- Aquatics**  
Ver- 12 June 27





Tile 17  
save for less hot day/hours

10-24-4  
10-24-4

100

100

100

100

100





**ELC**  
 SITE: Cedar Point  
 SURVEYOR(S): NC  
 DATE: July 4  
 POLYGON: 8-1  
 COMMUNITY DESCRIPTION & CLASSIFICATION  
 START: 12:30  
 END:  
 UTMZ:  
 UTM: E  
 UTMN:

**POLYGON DESCRIPTION**

<b>SYSTEM</b>	<b>SUBSTRATE</b>	<b>TOPOGRAPHIC FEATURE</b>	<b>HISTORY</b>	<b>PLANT FORM</b>	<b>COMMUNITY</b>
<input type="checkbox"/> TERRESTRIAL <input type="checkbox"/> WETLAND <input type="checkbox"/> AQUATIC  <input type="checkbox"/> OPEN WATER <input type="checkbox"/> SHALLOW WATER <input type="checkbox"/> SURFICIAL DEP. <input type="checkbox"/> BEDROCK	<input type="checkbox"/> ORGANIC <input type="checkbox"/> MINERAL SOIL <input type="checkbox"/> PARENT MIN. <input type="checkbox"/> ACIDIC BEDRK. <input type="checkbox"/> BASIC BEDRK. <input type="checkbox"/> CARB. BEDRK.	<input type="checkbox"/> LACUSTRINE <input type="checkbox"/> RIVERINE <input type="checkbox"/> BOTTOMLAND <input type="checkbox"/> TERRACE <input type="checkbox"/> VALLEY SLOPE <input type="checkbox"/> TABLELAND <input type="checkbox"/> ROLL. UPLAND <input type="checkbox"/> CLIFF <input type="checkbox"/> TALUS <input type="checkbox"/> CREVICE / CAVE <input type="checkbox"/> ALVAR <input type="checkbox"/> ROCKLAND <input type="checkbox"/> BEACH / BAR <input type="checkbox"/> SAND DUNE <input type="checkbox"/> BLUFF	<input type="checkbox"/> NATURAL <input type="checkbox"/> CULTURAL  <input type="checkbox"/> COVER <input type="checkbox"/> OPEN <input type="checkbox"/> SHRUB <input type="checkbox"/> TREED	<input type="checkbox"/> PLANKTON <input type="checkbox"/> SUBMERGED <input type="checkbox"/> FLOATING-LVD. <input type="checkbox"/> GRAMINOID <input type="checkbox"/> FORB <input type="checkbox"/> LICHEN <input type="checkbox"/> BRYOPHYTE <input type="checkbox"/> DECIUOUS <input type="checkbox"/> CONIFEROUS <input type="checkbox"/> MIXED	<input type="checkbox"/> LAKE <input type="checkbox"/> POND <input type="checkbox"/> RIVER <input type="checkbox"/> STREAM <input type="checkbox"/> MARSH <input type="checkbox"/> SWAMP <input type="checkbox"/> FEN <input type="checkbox"/> BOG <input type="checkbox"/> BARREN <input type="checkbox"/> MEADOW <input type="checkbox"/> PRAIRIE <input type="checkbox"/> THICKET <input type="checkbox"/> SAVANNAH <input type="checkbox"/> WOODLAND <input type="checkbox"/> FOREST <input type="checkbox"/> PLANTATION

**STAND DESCRIPTION:**

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (-> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	3	3	JUNVIRG >> FRAX JP
2 SUB-CANOPY			
3 UNDERSTOREY			
4 GRD. LAYER	5-7		Grasses > Solidago >> MELALBA

HT CODES: 1=>25m 2=10-HT<25m 3=2-HT<10m 4=1-HT<5m 5=0.5-HT<5m 6=0.2-HT<0.5m 7=HT<0.2m  
 CVR CODES: 0=NONE 1=0%-CVR<10% 2=10%-CVR<25% 3=25%-CVR<50% 4=50%-CVR<60% 5=60%-CVR<80%

**STAND COMPOSITION:**

SIZE CLASS ANALYSIS:	A	<10	A	10-24	A	25-50	N	>50
STANDING SNAGS:		<10		10-24		25-50		>50
DEADFALL/LOGS:		<10		10-24		25-50		>50

ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT  
 COMM. AGE: PIONEER YOUNG MID-AGE MATURE OLD GROWTH

**SOIL ANALYSIS:**

DEPTH TO MOTTLES/GLEY: g=

DEPTH OF ORGANICS: (cm) G=

HOMOGENEOUS / VARIABLE: (cm)

**COMMUNITY CLASSIFICATION:**

COMMUNITY CLASS: CODE: CUT

COMMUNITY SERIES: CODE: CUT

ECOSITE: red cedar

VEGETATION TYPE: red cedar

INCLUSION: CODE: CUT

COMPLEX: CODE: CUT

Evidence of Disturbance / Notes:  
 CUT HR (up to 4m tall)

**ELC**  
 SITE: POLYGON:  
 COMMUNITY DESCRIPTION & CLASSIFICATION: SURVEYOR(S):  
 DATE: DATE:  
 UTMZ: UTMZ:  
 UTM: UTM:  
 UTMN: UTMN:

LAYERS: 1=CANOPY>10m 2=SUB-CANOPY 3=UNDERSTOREY 4=GROUND (GRD.) LAYER  
 ABUNDANCE CODES: N=NONE R=RARE O=OCCASIONAL A=ABUNDANT D=DOMINANT

SPECIES CODE	LAYER				SPECIES CODE	LAYER				COLL.
	1	2	3	4		1	2	3	4	
JUNVIRG	A				Grass					A
FRAX SP	R				ASSYRI					O
ULMUS SP	R				SOLIDAGO					D
					MELALBA					D
					ACHILLE					R
					DIPFULL					
					Red sp					



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Tel: (519) 836-6050  
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## Woodland & Wildlife Habitat Assessment Form

**Stantec**

Project Number: 160960709

Project Name: Cedar Point

Date: July 4, 2012

Field Personnel: N. Chaulton

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>32</u>	<u>3</u>	<u>20%</u>	<u>none</u>	<u>rain</u>

ELC Polygon: # 18-1 Assessment Type:  Visual; roadside, no access /  Physical; walk through feature

Extent of Physical Investigation of Feature:  Entire /  Partial, walk through polygon (indicate on map)

**Reptile / Bat Hibernacula Features:** Contains potential reptile hibernacula features?  
 Y\* /  N /  Unknown, no access (\*if yes, describe in table below)  
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]  
 Contains potential bat hibernacula features?  
 Y\* /  N /  Unknown, no access (\*if yes, describe in table below)  
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

**Bat Roosting Features:** Contains potential bat roosting features?  
 Y\* /  N /  Unknown, no access (\*if yes, describe in table below)  
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

**Stick Nests:** Contains large stick nests?  
 Y\* /  N /  Unknown, no access (\*if yes, describe in table below)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

**Seeps/Springs/Vernal Pools:** Contains seeps/springs/vernal pools?  
 Y\* /  N /  Unknown, no access (\*if yes, describe in table below)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

**SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)**

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scar; SI=other sign; TK=track; VO=vocalization







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## Woodland & Wildlife Habitat Assessment Form

**Stantec**

Project Number: 160960709

Project Name: Cedar Point

Date: July 4, 2012

Field Personnel: N. Chaulton

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>32</u>	<u>3</u>	<u>20%</u>	<u>None</u>	<u>none</u>

ELC Polygon: # \_\_\_\_\_ Assessment Type:  -Visual; roadside, no access /  -Physical; walk through feature

Extent of Physical Investigation of Feature:  -Entire /  -Partial, walk through polygon (*indicate on map*)

**Reptile / Bat Hibernacula Features:** Contains potential reptile hibernacula features?  
 -Y\* /  -N /  -Unknown, no access (*\*if yes, describe in table below*)  
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]  
 Contains potential bat hibernacula features?  
 -Y\* /  -N /  -Unknown, no access (*\*if yes, describe in table below*)  
 [i.e. karst topography, abandoned mines or caves]

POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED			
UTM	Feature Description	Photo No.	Spp. Observed Using Feature

**Bat Roosting Features:** Contains potential bat roosting features?  
 -Y\* /  -N /  -Unknown, no access (*\*if yes, describe in table below*)  
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED							
UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

**Stick Nests:** Contains large stick nests?  
 -Y\* /  -N /  -Unknown, no access (*\*if yes, describe in table below*)

STICK NEST(S) IDENTIFIED						
UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature	

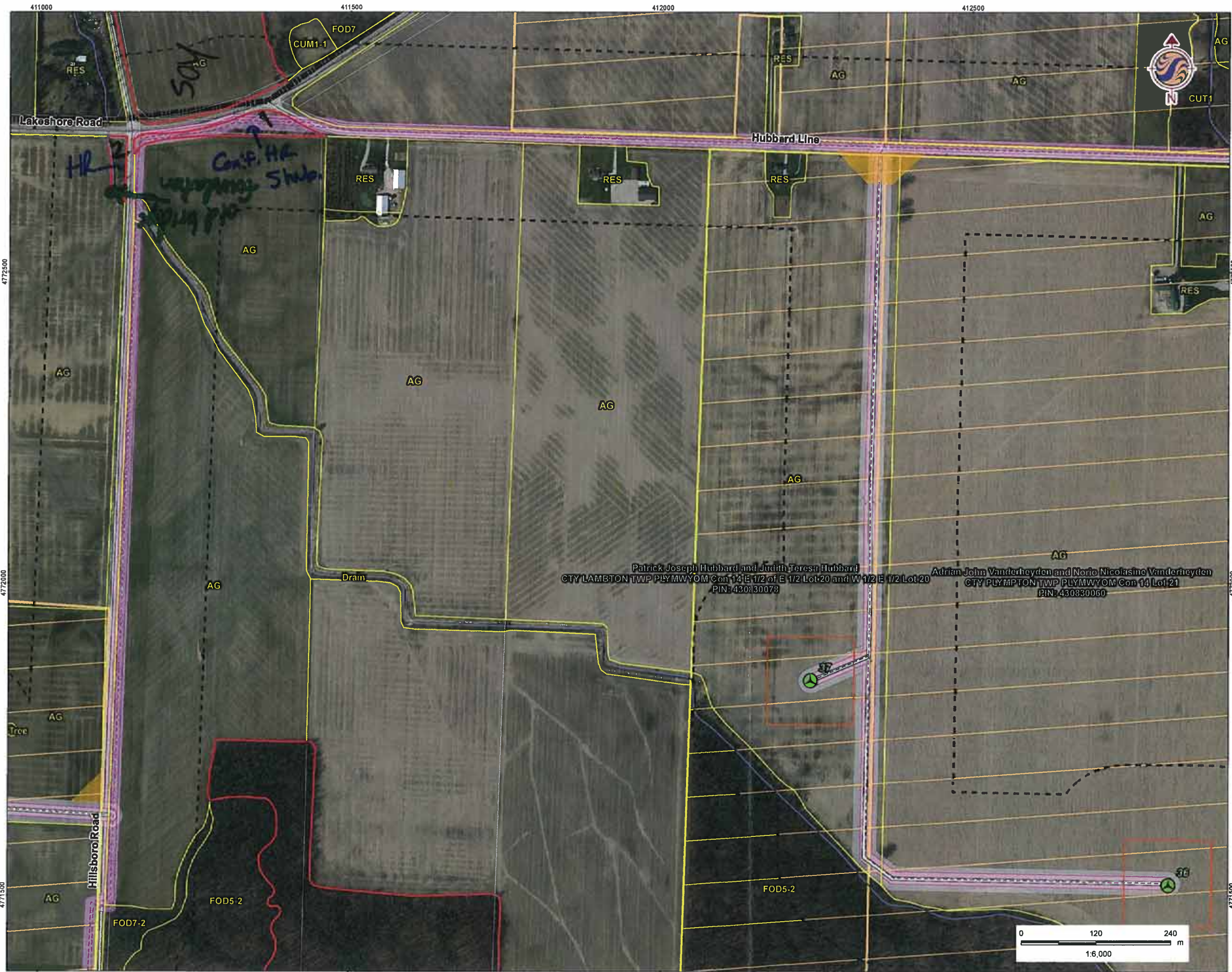
**Seeps/Springs/Vernal Pools:** Contains seeps/springs/vernal pools?  
 -Y\* /  -N /  -Unknown, no access (*\*if yes, describe in table below*)

SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED						
UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

**SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)**

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scar; SI=other sign; TK=track; VO=vocalization





**Legend**

- 120m Zone of Investigation
- Proposed Turbine Location
- MET Tower
- Access Road
- Transmission Line
- Underground Collector Line
- Turbine Laydown Area
- Substation
- Expressway / Highway
- Road
- Watercourse
- Constructed Drain
- Waterbody
- Municipal Boundary
- Property Boundary
- Land Status**
- Optioned Properties (Suncor)
- NextEra Properties
- ELC Status**
- ELC - Need Codes
- ELC - Complete

*#roadside  
As sections  
of real  
# Assets  
real Ag  
adjoining  
areas.*

**DRAFT**

**Notes**

1. Coordinate System: NAD 1983 UTM Zone 17N
2. Base features produced under license with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2011. ©Lambton County 2011.
3. Imagery Source- Suncor Energy  
Includes Material © 2011 of the Queens printer for Ontario. All rights reserved.  
Imagery Date: 2010



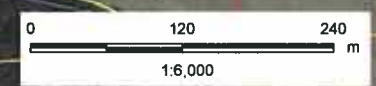
**Stantec**

July, 2012  
160960709

Client/Project  
Suncor Energy  
Cedar Point Wind Project

Figure No.  
Tile 18 of 54

Title  
**Project Infrastructure- Aquatics  
Ver- 12 June 27**







July 4<sup>th</sup>







Stantec Consulting Ltd.  
1 - 70 Southgate Drive  
Guelph, ON  
Canada N1G 4P5  
Tel: (519) 836-6050  
Fax: (519) 836-2493

**Stantec**

## Woodland & Wildlife Habitat Assessment Form

Project Number: 160960709

Project Name: Cedar Point Wind

Date: Nov 23, 2011

Field Personnel: C. Payette

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>4</u>	<u>4</u>	<u>100</u>	<u>None</u>	<u>Rain</u>

ELC Polygon: # 18-1 Assessment Type: -Visual; roadside, no access / -Physical; walk through feature

Extent of Physical Investigation of Feature: -Entire / -Partial, walk through polygon (indicate on map)

**Reptile / Bat Hibernacula Features:** Contains potential reptile hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. features that would provide a route underground, including buried concrete or rock (e.g. foundations, bridge abutments or culverts with cracks/entry points, exposed rock crevices or inactive animal burrows)]  
 Contains potential bat hibernacula features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. karst topography, abandoned mines or caves]

**POTENTIAL HIBERNACULA FEATURE(S) IDENTIFIED**

UTM	Feature Description	Photo No.	Spp. Observed Using Feature

**Bat Roosting Features:** Contains potential bat roosting features?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)  
 [i.e. tall trees with open surroundings, DBH >25cm, side-facing cavities ~10m high in tree]

**POTENTIAL BAT ROOSTING FEATURE(S) IDENTIFIED**

UTM	Tree ID	Tree Spp.	DBH	Photo No.	Decay Class (1-5)	No. of Cavities	Height and Type of Cavities

**Stick Nests:** Contains large stick nests?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

**STICK NEST(S) IDENTIFIED**

UTM	Tree ID	Tree Spp.	Nest Size	Photo No.	Spp. Observed Using Feature

**Seeps/Springs/Vernal Pools:** Contains seeps/springs/vernal pools?  
-Y\* / -N / -Unknown, no access (\*if yes, describe in table below)

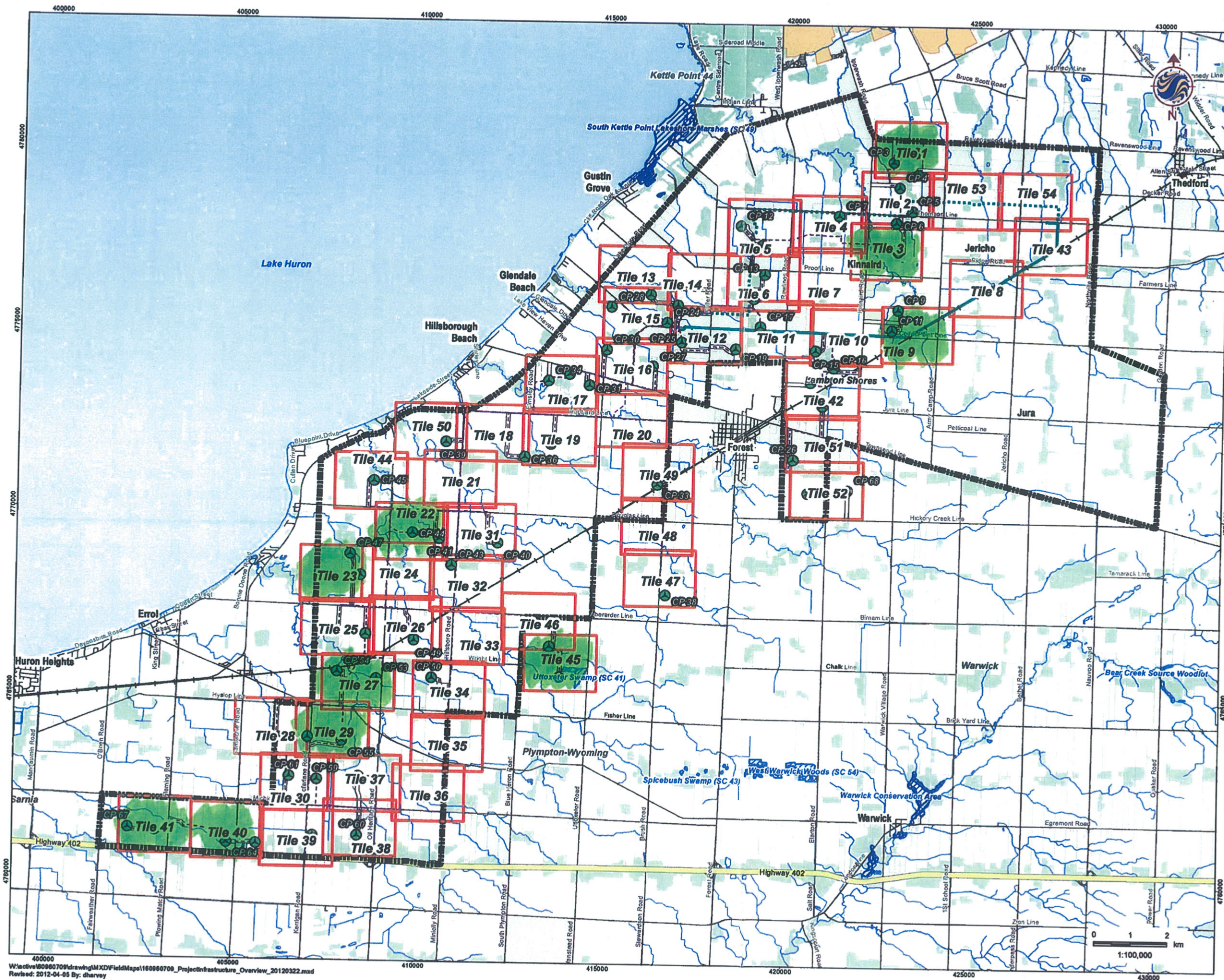
**SEEP / SPRING / VERNAL POOL FEATURE(S) IDENTIFIED**

UTM	Feature No. & Type	Feature Size (Diameter)	Water Depth	Photo No.	Sub/Emergent Veg. Spp. Present?	Shrubs/ Logs at Edge Present?

**SPECIES & HABITAT OBSERVATIONS (list species and type of observation & indicate on map)**

CA=carcass; DP=distinctive parts; FE=feeding evidence; FY=eggs/nest; HO=house/den; OB=observed; SC=scar; SI=other sign; TK=track; VO=vocalization

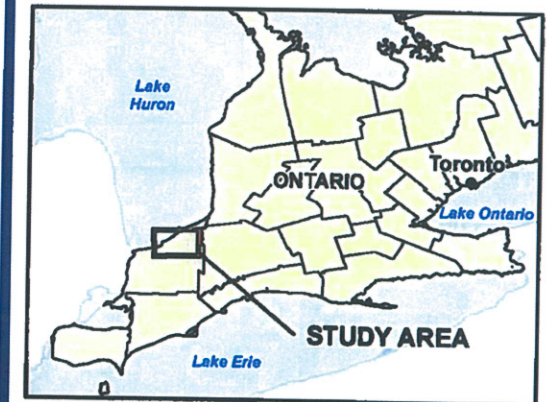




**Legend**

- Study Area
- Proposed Turbine Location
- MET Tower
- Access Road
- Underground Collector Line
- Transmission Line
- Transmission Line Alternate Route
- Expressway / Highway
- Road
- Railway
- ANSI, Provincially Significant Earth Science
- ANSI, Provincially Significant Life Science
- Wooded Area
- Watercourse
- Waterbody
- Municipal Boundary
- Property Boundary

**DRAFT**



**Notes**

1. Coordinate System: NAD 1983 UTM Zone 17N
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**Stantec**

April, 2012  
160960709

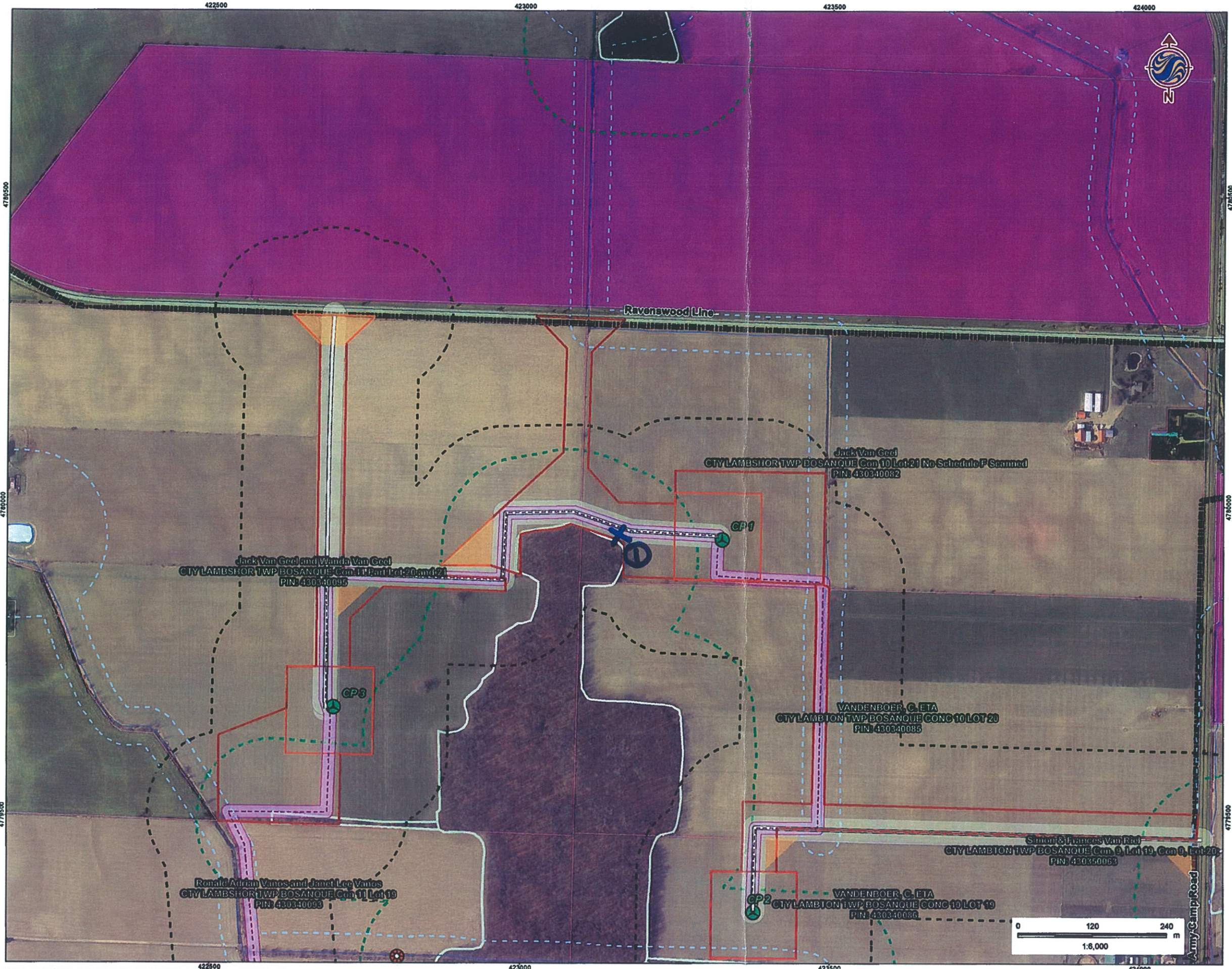
Client/Project  
Suncor Energy  
Cedar Point Wind Project

Figure No.  
**DRAFT**

Title  
**Project Infrastructure- Overview  
VER- 12 March 16**







- ### Legend
- 120m Zone of Investigation
  - Proposed Turbine Location
  - MET Tower
  - Culvert Location
  - HD Location
  - Access Road
  - Transmission Line
  - Alternate Transmission Line
  - Underground Collector Line
  - Turbine Laydown Area
  - Access Road ROW (40m)
  - Underground Cable ROW (20m)
  - Substation
  - Expressway / Highway
  - Road
  - Watercourse
  - Waterbody
  - Municipal Boundary
  - Property Boundary
  - Optioned Properties
  - NextEra Properties
  - Surveyed Areas (Archeology)
- ### Setbacks
- Waterbody (30m)
  - Woodlot (120m)
  - Wetland (120m)

# DRAFT

- ### Notes
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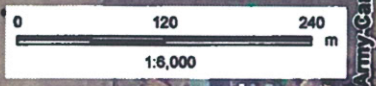
**Stantec**

April, 2012  
160960709

Client/Project  
Suncor Energy  
Cedar Point Wind Project

Figure No.  
Tile 1 of 54

Title  
**Project Infrastructure  
Ver- 12 March 16 Rev 1**







- ### Legend
- 120m Zone of Investigation
  - Proposed Turbine Location
  - MET Tower
  - Culvert Location
  - HD Location
  - Access Road
  - Transmission Line
  - Alternate Transmission Line
  - Underground Collector Line
  - Turbine Laydown Area
  - Access Road ROW (40m)
  - Underground Cable ROW (20m)
  - Substation
  - Expressway / Highway
  - Road
  - Watercourse
  - Waterbody
  - Municipal Boundary
  - Property Boundary
  - Optioned Properties
  - NextEra Properties
  - Surveyed Areas (Archeology)
- ### Setbacks
- Waterbody (30m)
  - Woodlot (120m)
  - Wetland (120m)

# DRAFT

- ### Notes
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Imagery Date: 2010

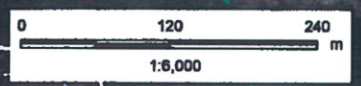


April, 2012  
160960708

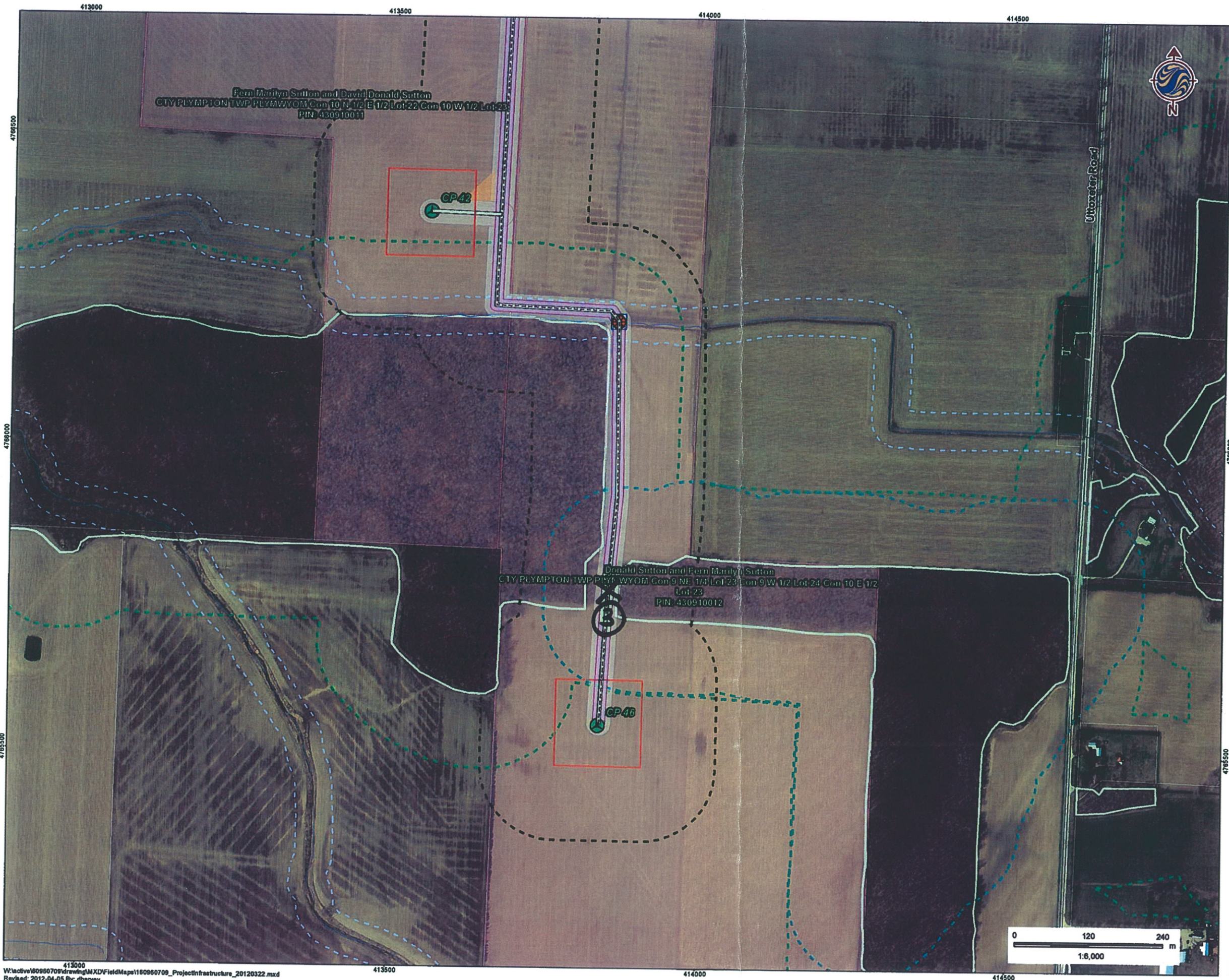
Client/Project  
Suncor Energy  
Cedar Point Wind Project

Figure No.  
Tile 3 of 54

Title  
**Project Infrastructure  
Ver- 12 March 16 Rev 1**







- ### Legend
- 120m Zone of Investigation
  - Proposed Turbine Location
  - MET Tower
  - Culvert Location
  - HD Location
  - Access Road
  - Transmission Line
  - Alternate Transmission Line
  - Underground Collector Line
  - Turbine Laydown Area
  - Access Road ROW (40m)
  - Underground Cable ROW (20m)
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  - Expressway / Highway
  - Road
  - Watercourse
  - Waterbody
  - Municipal Boundary
  - Property Boundary
  - Optioned Properties
  - NextEra Properties
  - Surveyed Areas (Archeology)
  - Setbacks**
    - Waterbody (30m)
    - Woodlot (120m)
    - Wetland (120m)

# DRAFT

- ### Notes
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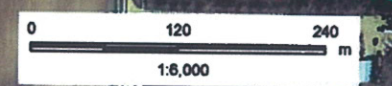
**Stantec**

April, 2012  
160960709

Client/Project  
Suncor Energy  
Cedar Point Wind Project


Figure No.  
Tile 45 of 54

Title  
**Project Infrastructure  
Ver- 12 March 16 Rev 1**





bound 1

 <b>Stantec</b>	Stantec Consulting Ltd. 70-1 Southgate Drive Guelph, Ontario, Canada N1G 4P5 Tel: (519) 836-6050 Fax: (519) 836-2493		<b>Amphibian Call Survey          Observation Form</b>		
	Project Number <u>160960709</u>		Project Name: <u>Cedar Pt Wind</u>		
Date <u>April 27/12</u>		Field Personnel: <u>michele O. Project</u> <u>Andrea m.</u>			
<b>Weather Conditions:</b>	Temp: <u>3.5°C</u>	Wind: <u>1</u>	Cloud: <u>Partial</u>	PPT: <u>0</u>	PPT in last 24 hrs: <u>0</u>

Visit Number:	<u>one</u>		
Start Time:	<u>20:55</u>	End Time:	<u>23:30</u>

• Record Start Time at Each Station

Species	In*	Out**
AMTO		
BCFR		
BULL		
CHFR		
CGTR		
FOTO		
GRTR		
GRFR		
MFR		
NLFR		
PIFR		
PPPE		
WOFR		

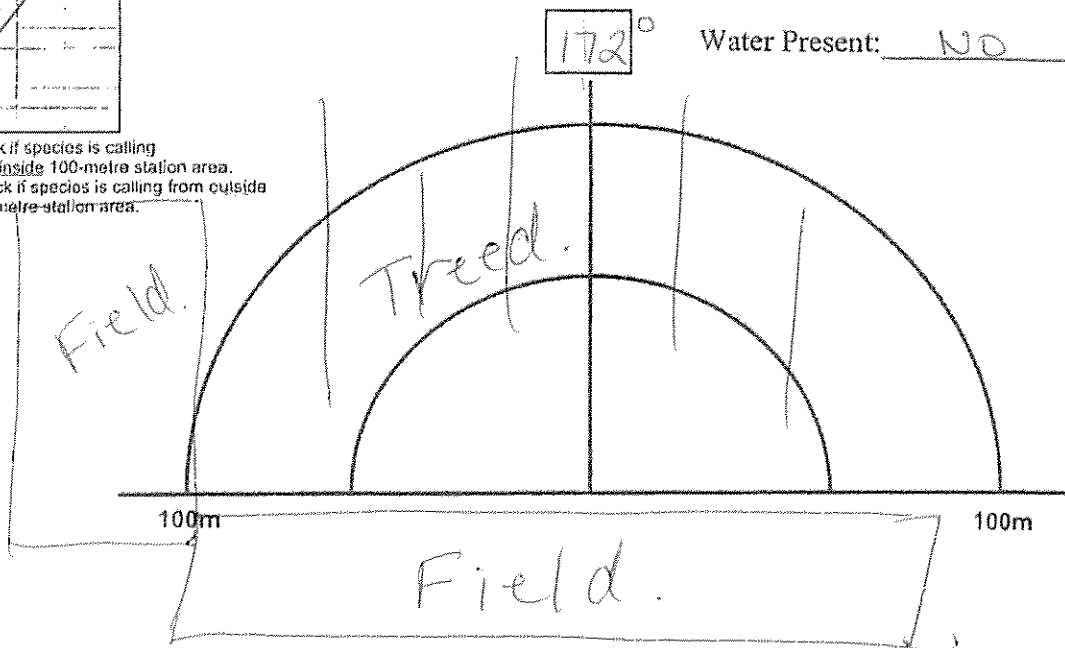
\* Check if species is calling from inside 100-metre station area.  
 \*\* Check if species is calling from outside 100-metre station area.

Start 20:55  
 Station 1  
 NO calls.

UTM: 17T 0423134  
4779953

Habitat: FOD? not amphib habitat.

Water Present: NO



Quality Control: This form is complete (S) & legible (S).  
 Signature: [Signature]  
 (Field Personnel)

Signature: [Signature]  
 (Project Manager)



Start 21:17

17T 0422933  
UTM: 4777955

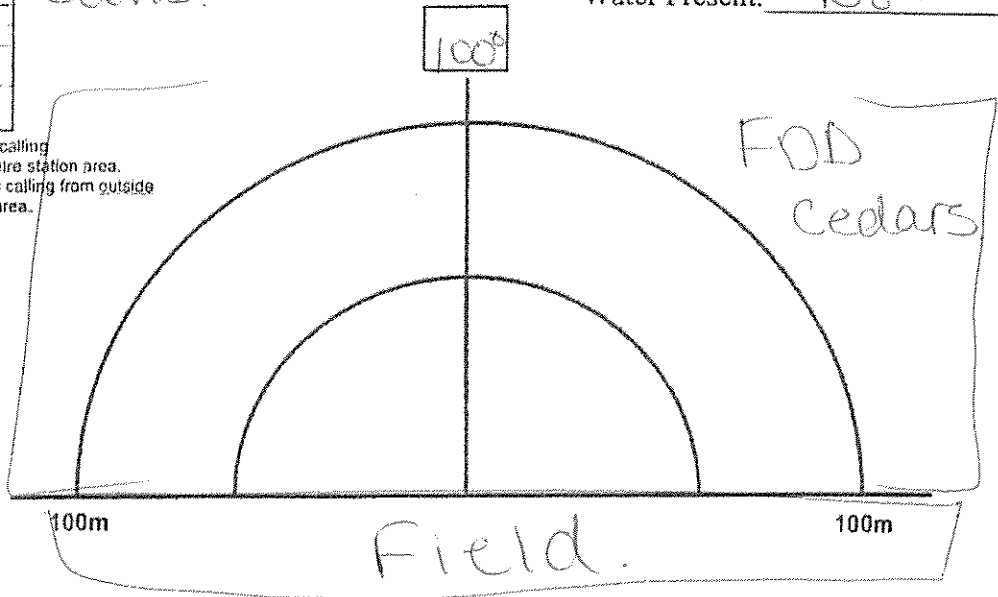
Habitat: Cedar Swamp.

Water Present: No

Species	In*	Out**
AMTO		
BCFR		
BULL		
CHFR		
CGTR		
FOTO		
GRTR		
GRFR		
MIFR		
NLFR		
PIFR		
SPPE		
WOFR		

No calls.

Station 2



\* Check if species is calling from inside 100-metre station area.  
 \*\* Check if species is calling from outside 100-metre station area.

17T 0423160  
UTM: 4774920

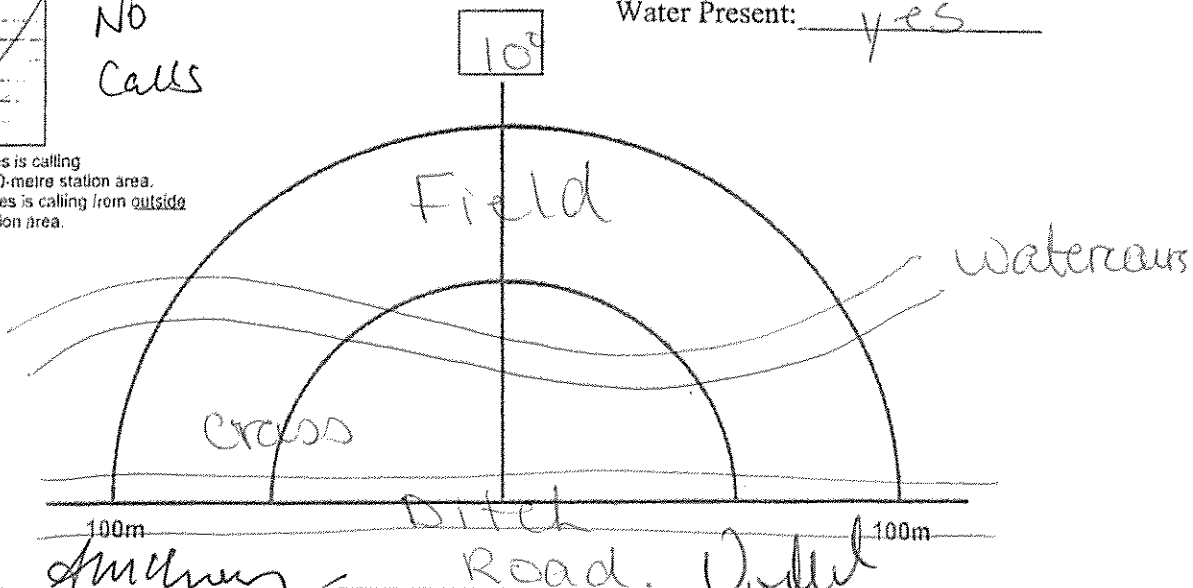
Habitat: watercourse

Water Present: yes

Species	In*	Out**
AMTO		
BCFR		
BULL		
CHFR		
CGTR		
FOTO		
GRTR		
GRFR		
MIFR		
NLFR		
PIFR		
SPPE		
WOFR		

Start 21:29 Station 4

No calls



\* Check if species is calling from inside 100-metre station area.  
 \*\* Check if species is calling from outside 100-metre station area.



Start 22:19

Species	In*	Out**
AMTO		
BCFR		
BULL		
CHFR		
CGTR		
FOTO		
GRTR		
GRFR		
MIFR		
NLFR		
PIFR		
SPPE		
WOFR	✓	

~~no~~  
calls

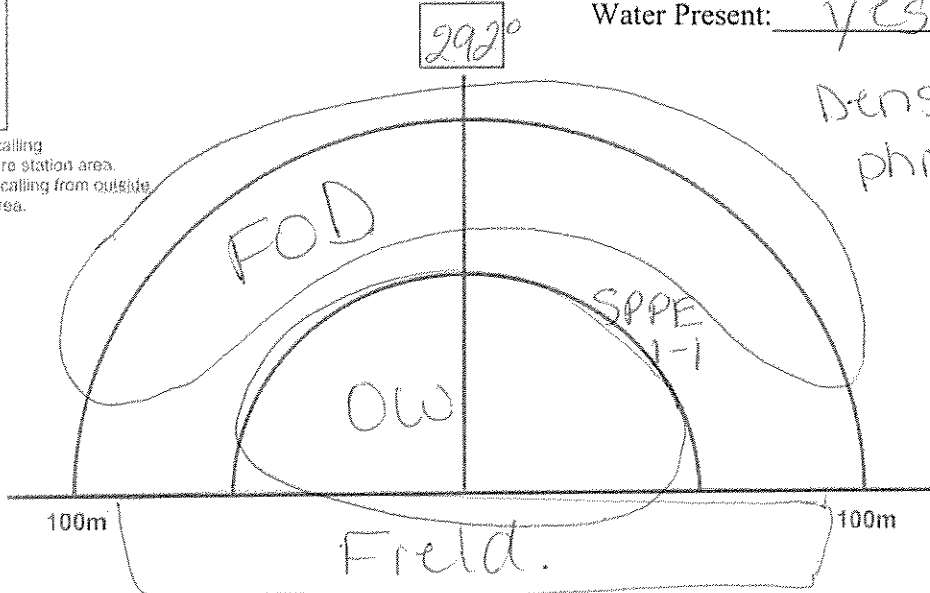
Station 3

17T 0413819  
UTM: 4765799

Habitat: OW/SWD?

Water Present: YES.

Dense phragmites.



\* Check if species is calling from inside 100-metre station area.  
\*\* Check if species is calling from outside 100-metre station area.

23:07

Station 5

Species	In*	Out**
AMTO		
BCFR		
BULL		
CHFR		
CGTR		
FOTO		
GRTR		
GRFR		
MIFR		
NLFR		
PIFR		
SPPE		
WOFR		

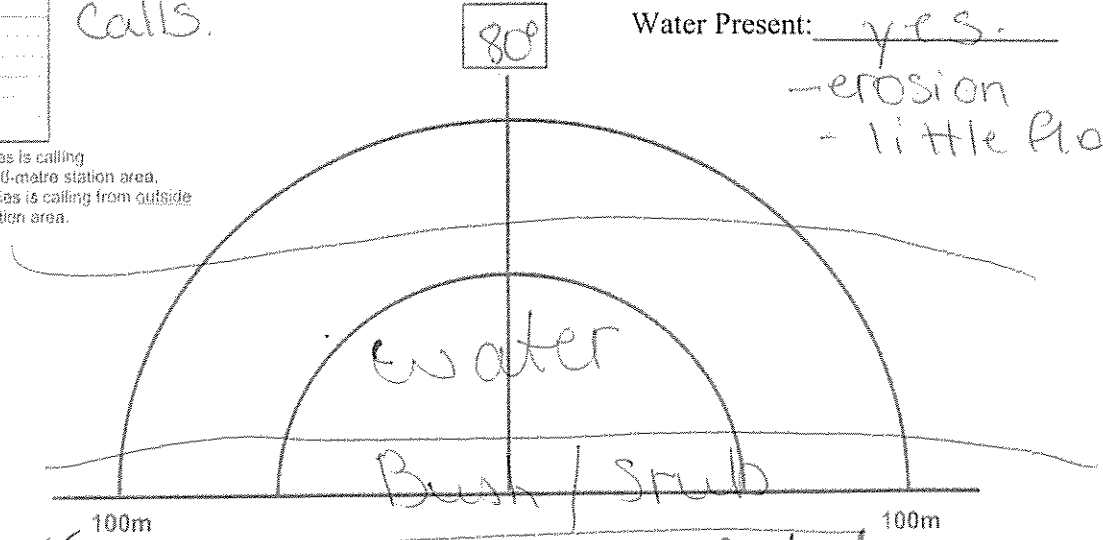
No calls.

17T 0409368  
UTM: 4769374

Habitat: FOD / watercourse.

Water Present: YES.

- erosion  
- little flow.



\* Check if species is calling from inside 100-metre station area.  
\*\* Check if species is calling from outside 100-metre station area.

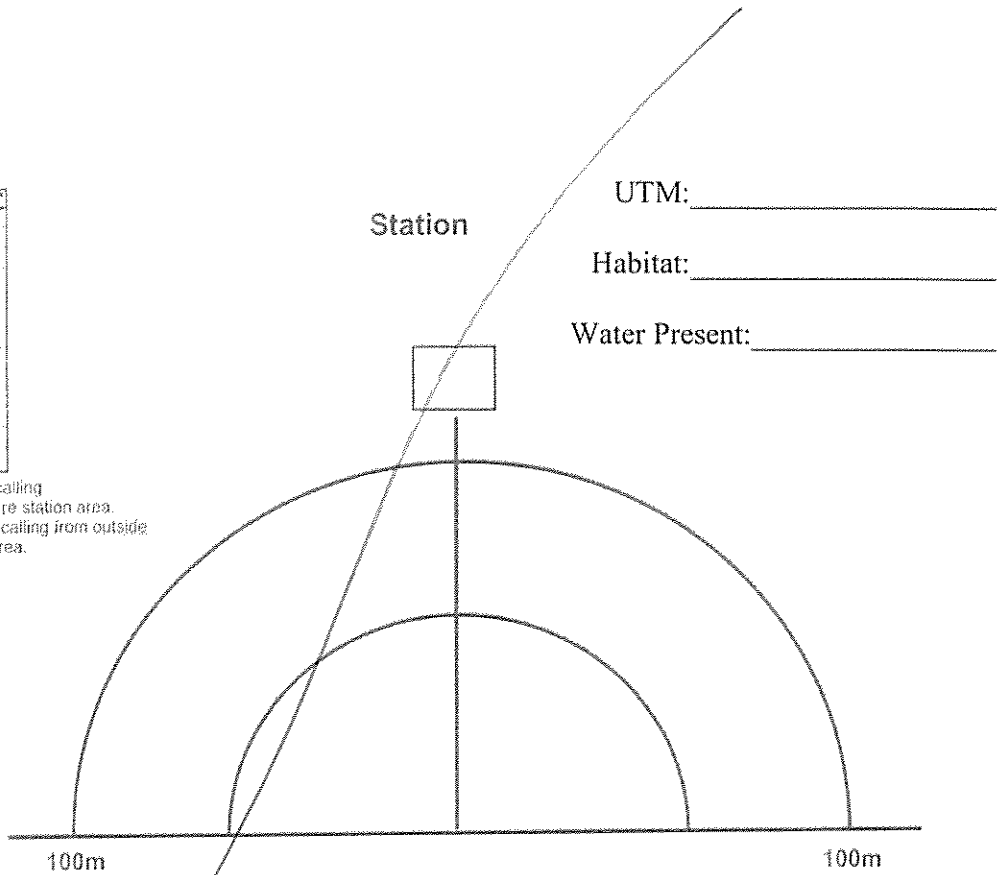
Signature: [Signature]  
(Field Personnel)

Signature: [Signature]  
(Project Manager)



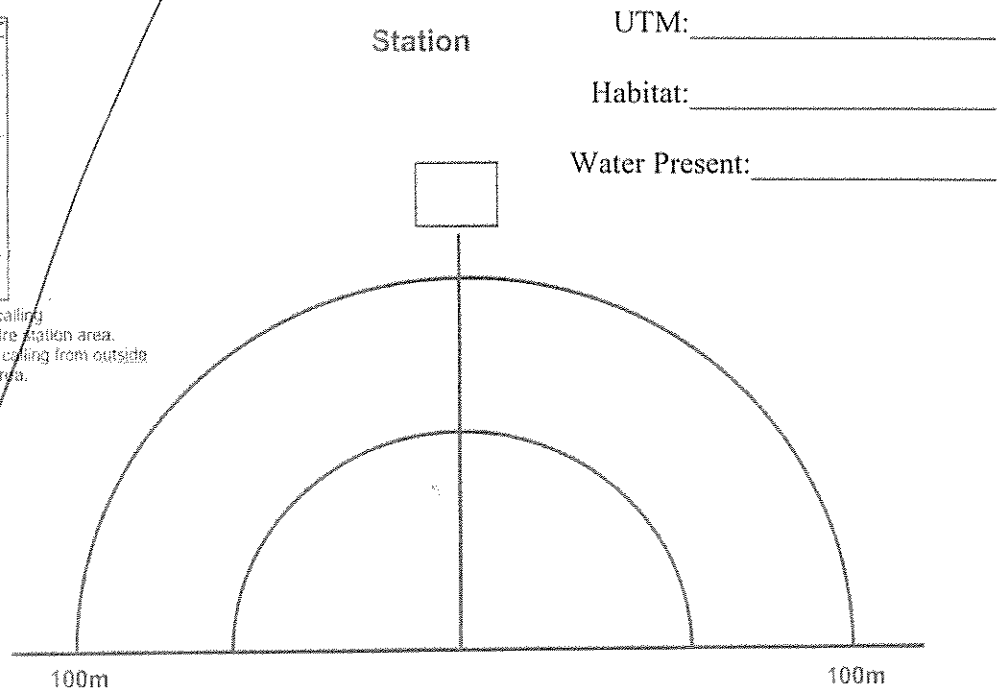
Species	In*	Out**
AMTO		
BCFR		
BULL		
CHFR		
CGTR		
FOTO		
GRTR		
GRFR		
MIFR		
NLFR		
PIFR		
SPPE		
WOFR		

\* Check if species is calling from inside 100-metre station area.  
 \*\* Check if species is calling from outside 100-metre station area.



Species	In*	Out**
AMTO		
BCFR		
BULL		
CHFR		
CGTR		
FOTO		
GRTR		
GRFR		
MIFR		
NLFR		
PIFR		
SPPE		
WOFR		

\* Check if species is calling from inside 100-metre station area.  
 \*\* Check if species is calling from outside 100-metre station area.





Round 2



Stantec

Stantec Consulting Ltd.  
70-1 Southgate Drive  
Guelph, Ontario, Canada  
N1G 4P5  
Tel: (519) 836-6050  
Fax: (519) 836-2493

### Amphibian Call Survey Observation Form

Project Number 165960709

Project Name: Cedar Point wind farm

Date May 27, 2012

Field Personnel: C. Payette, N. Chantoni

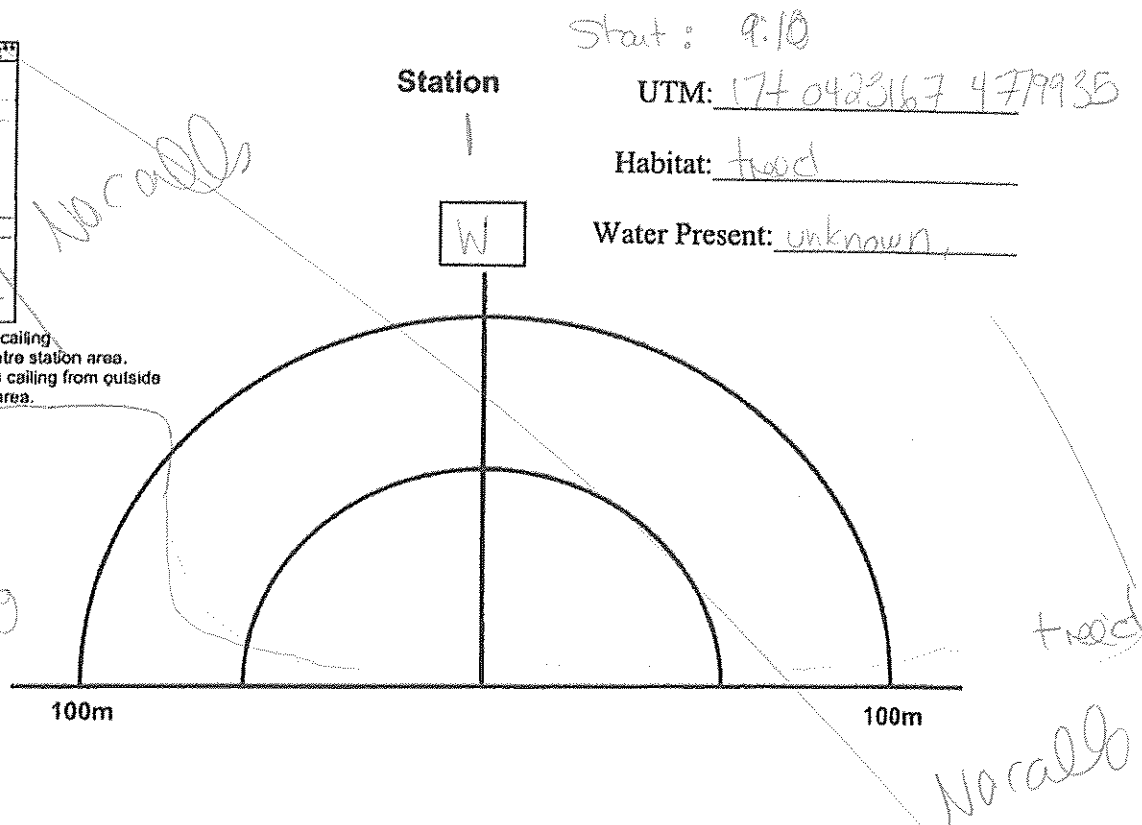
Weather Conditions:	Temp: <u>19°C</u>	Wind: <u>4</u>	Cloud: <u>15%</u>	PPT: <u>None</u>	PPT in last 24 hrs: <u>Rain</u>
---------------------	-------------------	----------------	-------------------	------------------	---------------------------------

Visit Number:	<u>Day 3</u>		
Start Time:	<u>9:10</u>	End Time:	<u>11:32</u>

- Record Start Time at Each Station

Species	In*	Out**
AMTO		
BCFR		
BULL		
CHFR		
CGTR		
FOTO		
GRTR		
GRFR		
MIFR		
NLFR		
PIFR		
SPPE		
WOFR		

\* Check if species is calling from inside 100-metre station area.  
 \*\* Check if species is calling from outside 100-metre station area.



Start: 9:10

UTM: 174 0423167 4779935

Habitat: wood

Water Present: unknown

Quality Control: This form is complete  & legible .

Signature: [Signature]  
(Field Personnel)

Signature: [Signature]  
(Project Manager)

Page 1 of 4



Start 9:33

UTM: 17T 0422919 4777929

Habitat: field Swamp

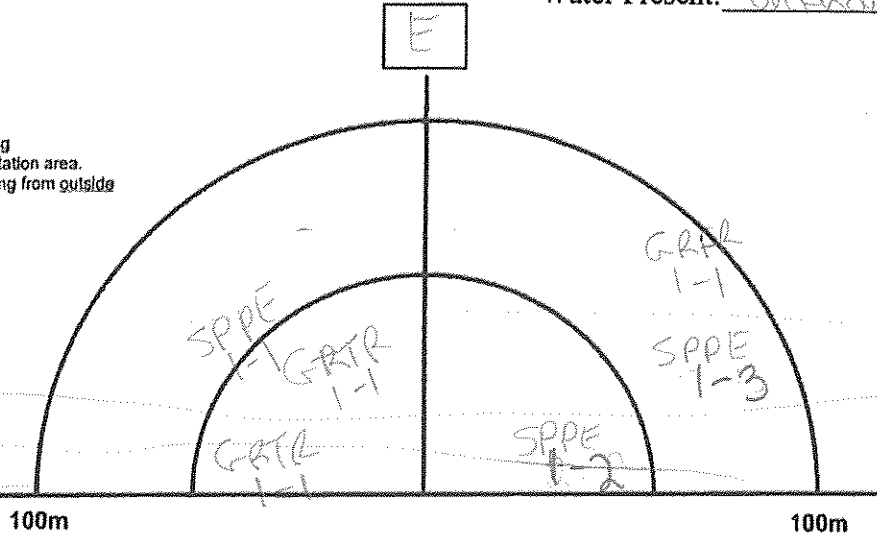
Water Present: unknown

Species	In*	Out**
AMTO		
BCFR		
BULL		
CHFR		
CGTR		
FOTO		
GRTR	/	
GRFR	/	
MIFR		
NLFR		
PIFR		
SPPE	/	
WOFR		

\* Check if species is calling from inside 100-metre station area.  
 \*\* Check if species is calling from outside 100-metre station area.

Station 2

E



field  
 Ag/coon

Start: 9:49

UTM: 17T 0423236 4774915

Habitat: Ditch HR MAM

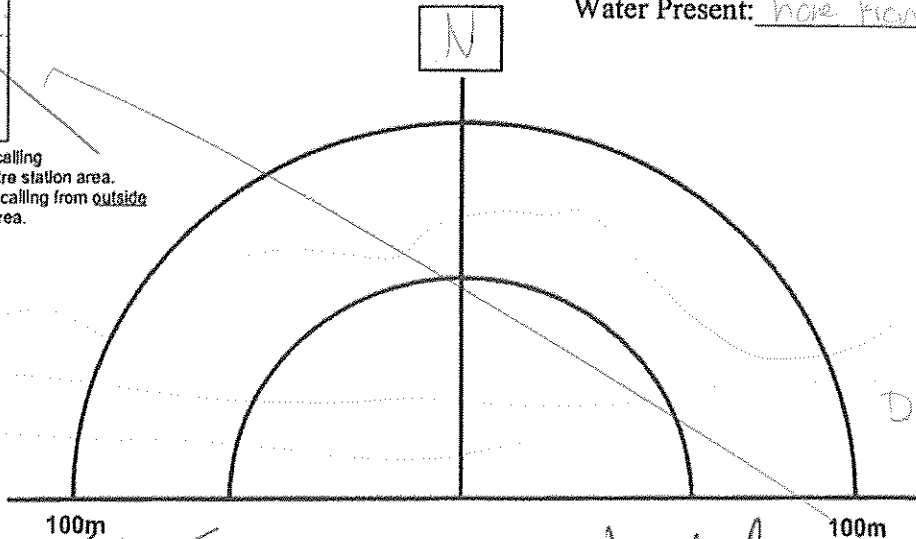
Water Present: none from Rd

Species	In*	Out**
AMTO		
BCFR		
BULL		
CHFR		
CGTR		
FOTO		
GRTR		
GRFR		
MIFR		
NLFR		
PIFR		
SPPE		
WOFR		

\* Check if species is calling from inside 100-metre station area.  
 \*\* Check if species is calling from outside 100-metre station area.

Station 4

N



thicket of trees  
 MAM  
 Ditch

*[Signature]*  
 (Field Personnel)

*[Signature]*  
 (Project Manager)



Species: In*	Out**
AMTO	
BCFR	
BULL	
CHFR	
CGTR	
FOTO	
GRTR	
GRFR	<input checked="" type="checkbox"/>
MIFR	
NLFR	
PIFR	
SPPE	
WOFR	

\* Check if species is calling from inside 100-metre station area.  
 \*\* Check if species is calling from outside 100-metre station area.

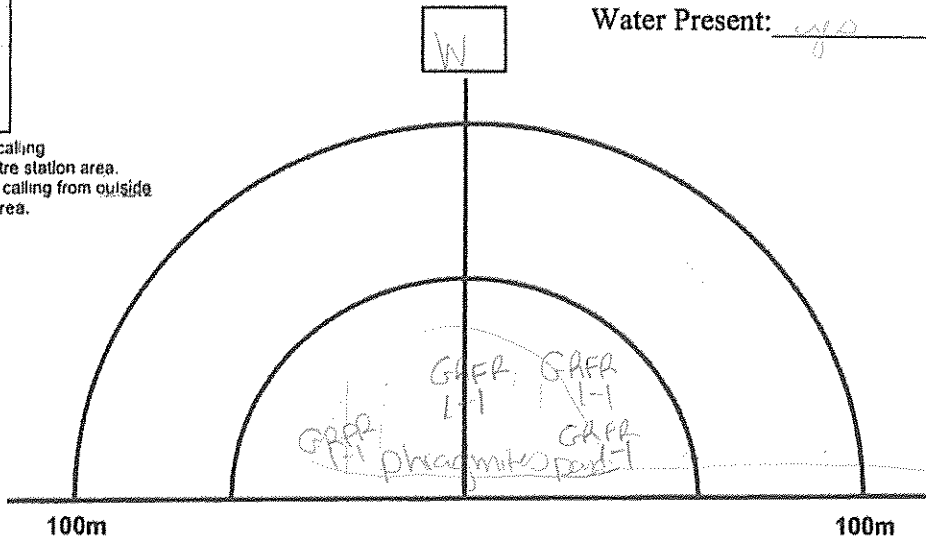
Start: 9:00pm

UTM: 17+0413826 4765811

Habitat: tree, phrag, pond

Water Present: yes

Station  
3 West



Start: 9:04

UTM: 17+0413826 4765811

Habitat: tree swamp

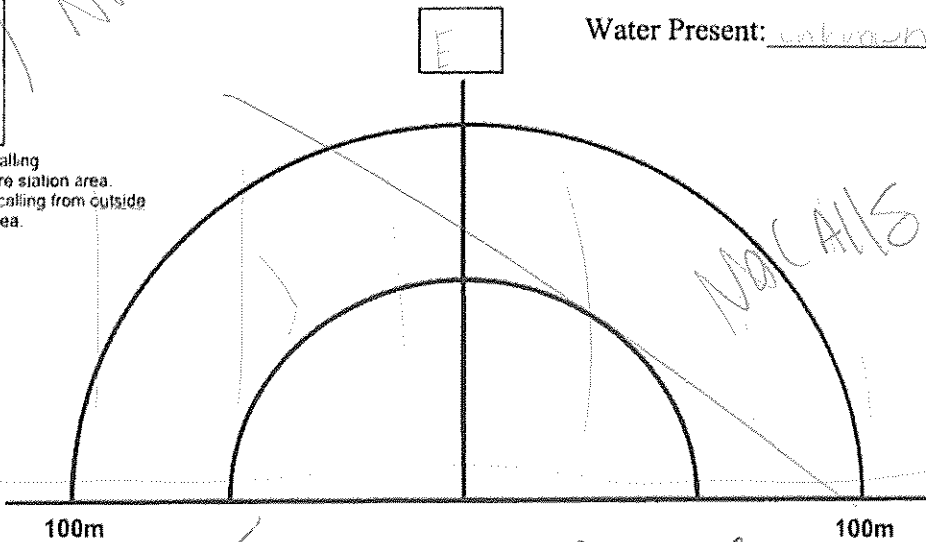
Water Present: unknown

Station  
3 east

Species In*	Out**
AMTO	
BCFR	
BULL	
CHFR	
CGTR	
FOTO	
GRTR	
GRFR	
MIFR	
NLFR	
PIFR	
SPPE	
WOFR	

\* Check if species is calling from inside 100-metre station area.  
 \*\* Check if species is calling from outside 100-metre station area.


No calls



Signature: [Signature]  
(Field Personnel)

Signature: [Signature]  
(Project Manager)



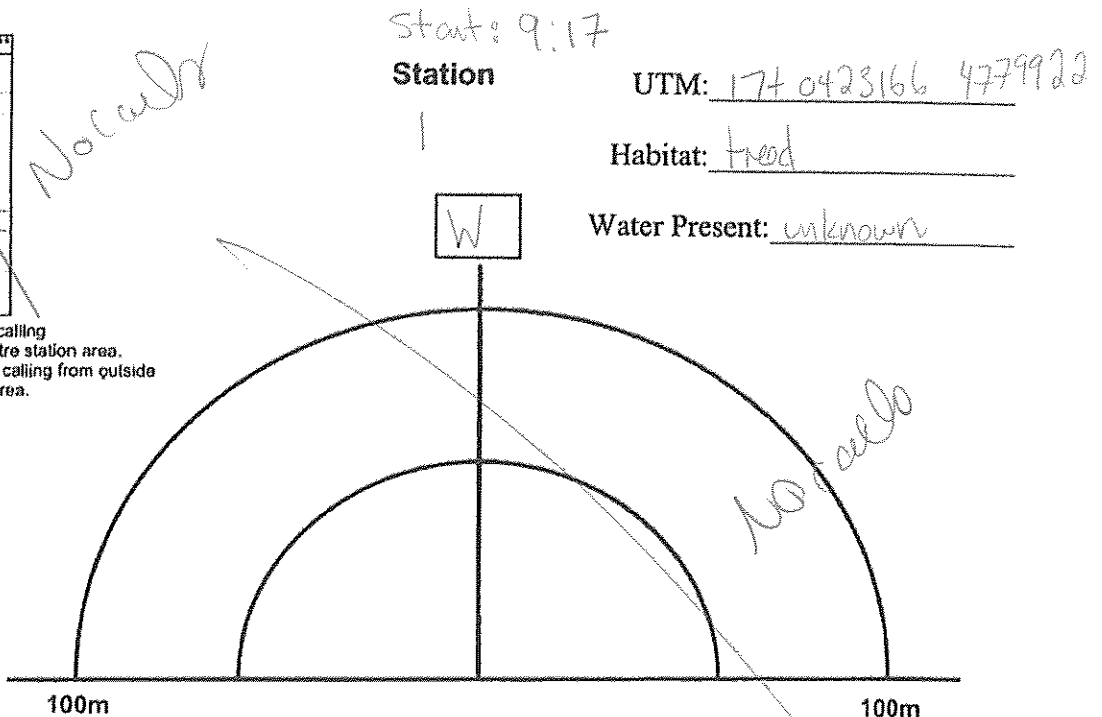
 <b>Stantec</b>	Stantec Consulting Ltd. 70-1 Southgate Drive Guelph, Ontario, Canada N1G 4P5 Tel: (519) 836-6050 Fax: (519) 836-2493		<b>Amphibian Call Survey                  Observation Form</b>		
	Project Number: <u>160160709</u>		Project Name: <u>Cedar Point</u>		
Date: <u>June 14, 2012</u>		Field Personnel: <u>C. Payette, A. McCreery</u>			
<b>Weather Conditions:</b>	Temp:	Wind: <u>1</u>	Cloud: <u>5%</u>	PPT: <u>none</u>	PPT in last 24 hrs: <u>none</u>

Visit Number:	<u>3 of 3</u>		
Start Time:	<u>9:17</u>	End Time:	<u>11:24</u>

- Record Start Time at Each Station

Species	In*	Out**
AMTO		
BCFR		
BULL		
CHFR		
CGTR		
FOTO		
GRTR		
GRFR		
MIFR		
NLFR		
PIFR		
SPPE		
WOFR		

\* Check if species is calling from inside 100-metre station area.  
 \*\* Check if species is calling from outside 100-metre station area.



Quality Control: This form is complete (✓) & legible (✓).  
 Signature: [Signature]  
 (Field Personnel)  
 Page 1 of 4

Signature: [Signature]  
 (Project Manager)  
 REV: Mar, 09 Form 003



Start: 9:40

UTM: 17+ 0422924 4777926

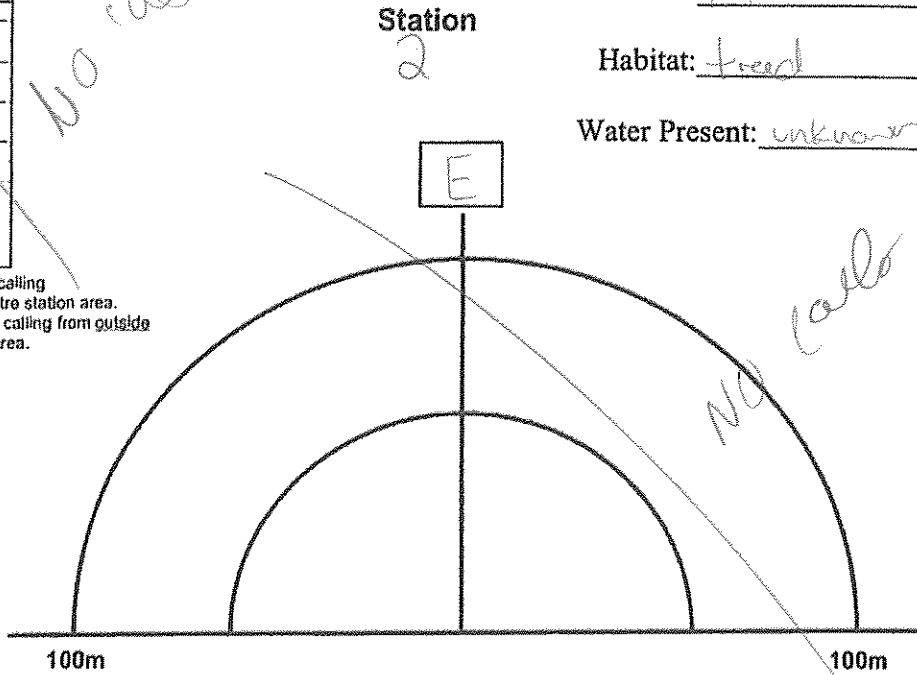
Habitat: forest

Water Present: unknown

Species	In*	Out**
AMTO		
BCFR		
BULL		
CHFR		
CGTR		
FOTO		
GRTR		
GRFR		
MIFR		
NLFR		
PIFR		
SPPE		
WOFR		

\* Check if species is calling from inside 100-metre station area.  
 \*\* Check if species is calling from outside 100-metre station area.

*NO calls*



*NO calls*

Start: 10:01

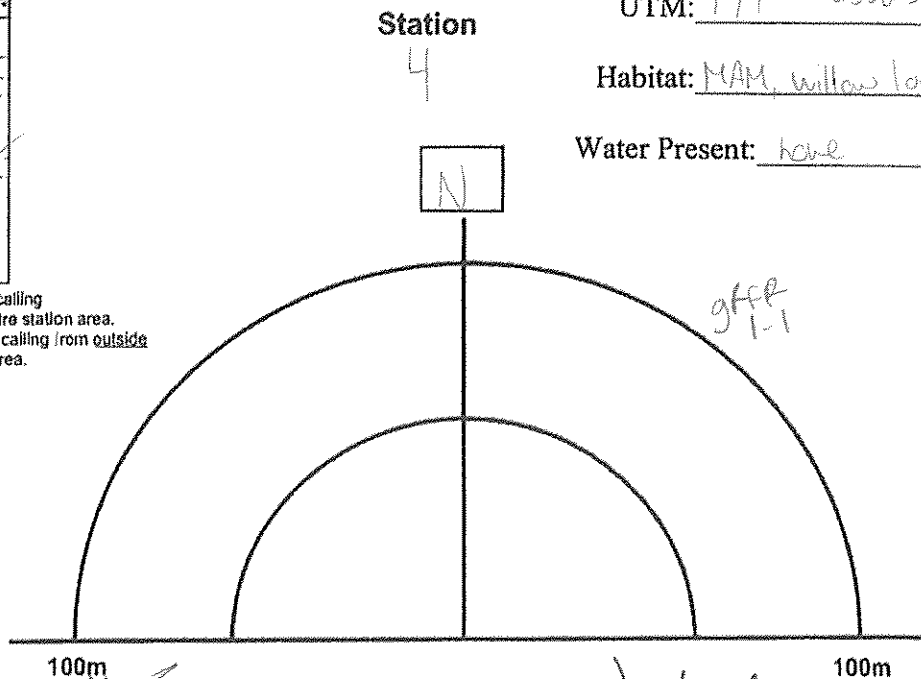
UTM: 17+ 0423225 4774918

Habitat: MAM, willow lowland / Ditch

Water Present: low

Species	In*	Out**
AMTO		
BCFR		
BULL		
CHFR		
CGTR		
FOTO		
GRTR		
GRFR		
MIFR		
NLFR		
PIFR		
SPPE		
WOFR		

\* Check if species is calling from inside 100-metre station area.  
 \*\* Check if species is calling from outside 100-metre station area.




*grr 1-1*

(Field Personnel)

(Project Manager)



 <b>Stantec</b>	Stantec Consulting Ltd. 70-1 Southgate Drive Guelph, Ontario, Canada N1G 4P5 Tel: (519) 836-6050 Fax: (519) 836-2493	<b>Amphibian Call Survey                  Observation Form</b>
	Project Number <u>1609607091</u> Project Name: <u>Cedar Point Wind</u> Date <u>June 20<sup>th</sup> 2012</u> Field Personnel: <u>N Leava K Walpole</u>	

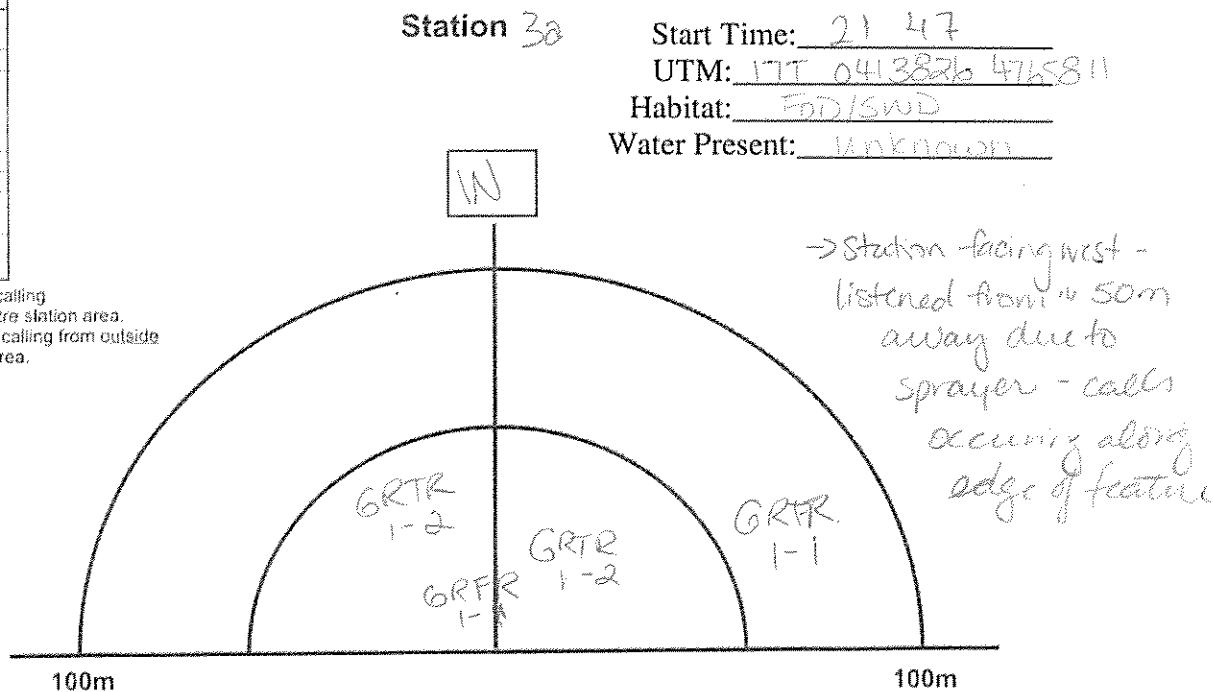
<b>Weather Conditions:</b>	Temp: <u>30</u>	Wind: <u>0</u>	Cloud: <u>0</u>	PPT: <u>0</u>	PPT in last 24 hrs: <u>0</u>
----------------------------	-----------------	----------------	-----------------	---------------	------------------------------

Visit Number:	<u>3 of 3</u>		
Start Time:	<u>21:45</u>	End Time:	<u>24:00</u>

- Record Start Time at Each Station

Species	In*	Out**
AMTO		
BCFR		
BULL		
CHFR		
CGTR		
FOTO		
GRTR		
GRFR	<input checked="" type="checkbox"/>	
MIFR		
NLFR		
PIFR		
SPPE		
WOFR		

\* Check if species is calling from inside 100-metre station area.  
 \*\* Check if species is calling from outside 100-metre station area.



Quality Control: This form is complete  & legible

Signature: [Signature]  
 (Field Personnel)

Signature: [Signature]  
 (Project Manager)

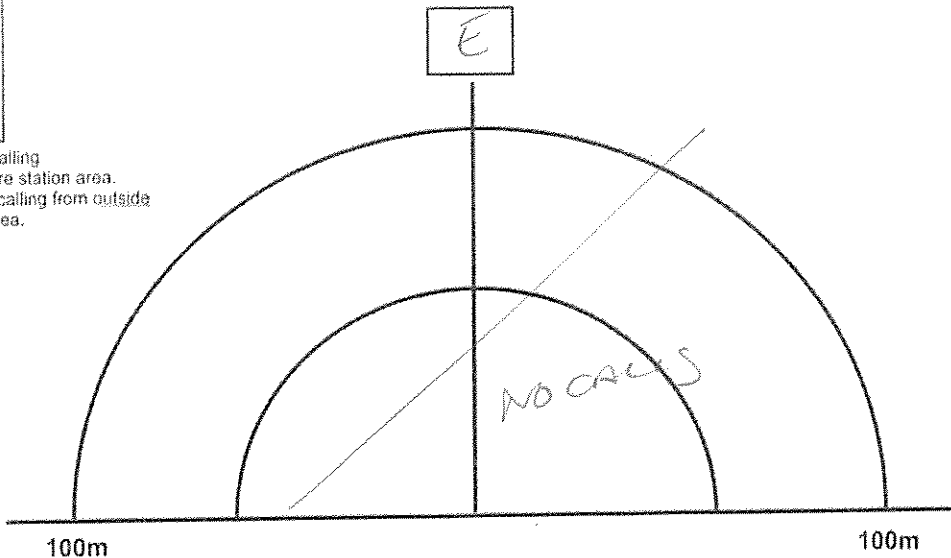


Species	In*	Out**
AMTO		
BCFR		
BULL		
CHFR		
CGTR		
FOTO		
GRTR		
GRFR		
MIFR		
NLFR		
PIFR		
SPPE		
WOFR		

\* Check if species is calling from inside 100-metre station area.  
 \*\* Check if species is calling from outside 100-metre station area.

Station 3b

Start Time: 21:50  
 UTM: 1770413826, 4765811  
 Habitat: SWD / FSD  
 Water Present: unknown

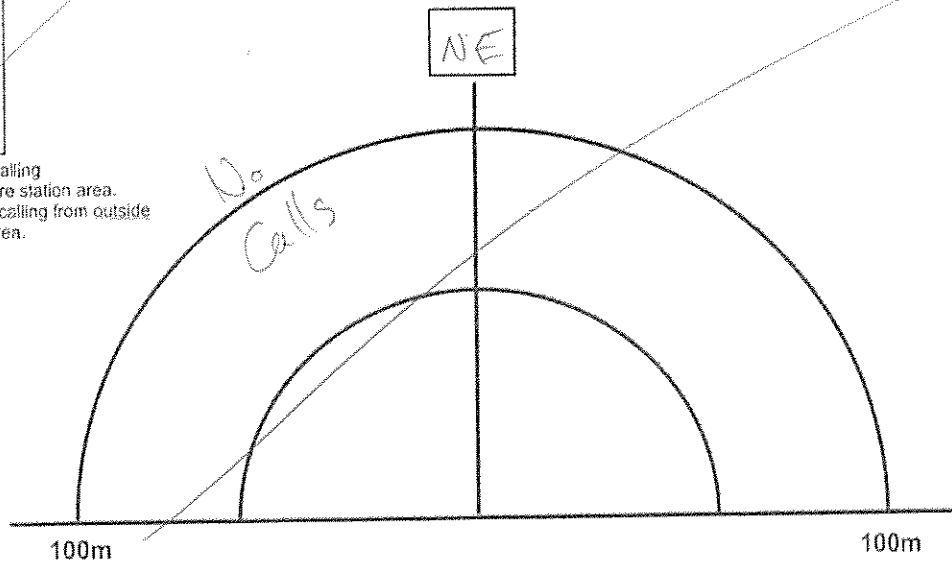


Species	In*	Out**
AMTO		
BCFR		
BULL		
CHFR		
CGTR		
FOTO		
GRTR		
GRFR		
MIFR		
NLFR		
PIFR		
SPPE		
WOFR		

\* Check if species is calling from inside 100-metre station area.  
 \*\* Check if species is calling from outside 100-metre station area.

Station 6

Start Time: 22:30  
 UTM: 177068288, 4768638  
 Habitat: FDD / SWD?  
 Water Present: unknown



Signature: [Signature]  
 (Field Personnel)

Signature: [Signature]  
 (Project Manager)



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**Bat Maternity Roost -  
 Cavity Tree Density Plots  
 Data Form**

(FOR USE IN FOD & FOM COMMUNITIES ONLY)

Project Number: 16 0960709

Project Name: Cedar Point

<u>19/03/13</u>	<u>8:50</u>	<u>9:50</u>	<u>J Ball</u>	
DATE	TIME (start)	TIME (end)	Field Personnel	
<u>-2</u>	<u>4</u>	<u>100%</u>	<u>Light Snow</u>	<u>Light Snow</u>
TEMP (°C)	WIND	CLOUD	PPT	PPT (in last 24 hrs)

Weather Conditions:

Feature #: 3 Feature Size (ha): 4.4 No. of Plots to Survey<sup>1</sup>: 10

Plot No.	Total No. of Cavity Trees	Plot Center UTM (Zone: <u>17T</u> )	Comments
Plot 01	0	0425082 / 4778775	
Plot 02	0	0425078 / 4778739	
Plot 03	0	0425074 / 4778692	
Plot 04	0	0425107 / 4778630	
Plot 05	0	0425047 / 4778617	
Plot 06	0	0424997 / 4778660	
Plot 07	0	0424939 / 4778659	
Plot 08	0	0424912 / 4778638	
Plot 09	0	0424885 / 4778623	
Plot 10	0	0424862 / 4778634	
Plot 11		/	
Plot 12		/	
Plot 13		/	
Plot 14		/	
Plot 15		/	
Plot 16		/	
Plot 17		/	
Plot 18		/	
Plot 19		/	
Plot 20		/	
Plot 21		/	
Plot 22		/	
Plot 23		/	

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(Field Personnel)

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(Project Manager)



Plot No.	Total No. of Cavity Trees	Plot Center UTM (Zone: _____)	Comments
Plot 24		/	
Plot 25		/	
Plot 26		/	
Plot 27		/	
Plot 28		/	
Plot 29		/	
Plot 30		/	
Plot 31			
Plot 32		/	
Plot 33		/	
Plot 34		/	
Plot 35		/	

TOTAL No. of Cavity Trees: 0

Density Calculation: (use formula provided<sup>2</sup>)

Trees/ha

<sup>1</sup>No. of Plots: Sites ≤ 10 ha: 10 plots (minimum); each extra ha: 1 plot (up to max 35 plots). Plots = 0.05 ha or 12.6m radius. Select plots randomly.

$$^2\text{Total Cavity Tree Density} = \frac{\text{total \# cavity trees}}{(\# \text{ plots} \times 0.05 \text{ ha})}$$

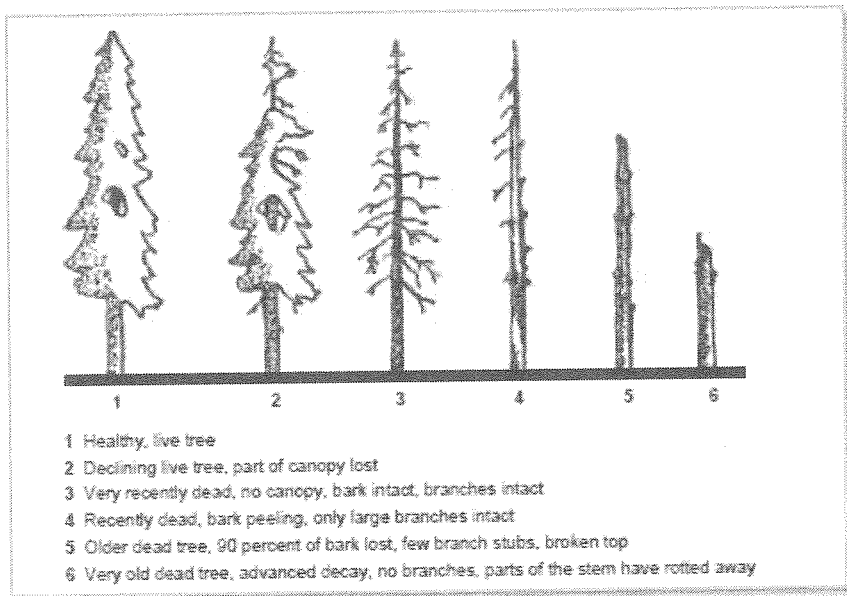


Figure 1: Decay classification system for cavity trees (Watt and Caceres, 1999)  
 NOTE: Decay classifications 4-6 should not be tallied in plots.



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## Bat Maternity Roost - Cavity Tree Density Plots Data Form

(FOR USE IN FOD & FOM COMMUNITIES ONLY)

Project Number: 160960709

Project Name: Cedar Point

<u>18/03/13</u>	<u>13:00</u>	<u>16:00</u>	<u>J. Ball</u>
DATE	TIME (start)	TIME (end)	Field Personnel

Weather Conditions: <u>-2</u>	<u>4</u>	<u>100%</u>	<u>—</u>	<u>Unknown</u>
TEMP (°C)	WIND	CLOUD	PPT	PPT (in last 24 hrs)

Feature #: 6 Feature Size (ha): 36 No. of Plots to Survey<sup>1</sup>: 35

Plot No.	Total No. of Cavity Trees	Plot Center UTM (Zone: <u>17T</u> )	Comments
Plot 01	0	0423083 / 4778301	
Plot 02	0	0423092 / 4778357	
Plot 03	0	0423096 / 4778456	
Plot 04	0	0422998 / 4778514	
Plot 05	0	0422992 / 4778594	
Plot 06	0	0423059 / 4778603	
Plot 07	0	0423085 / 4778625	
Plot 08	0	0423100 / 4778678	
Plot 09	0	0423226 / 4778698	
Plot 10	0	0423232 / 4778786	
Plot 11	0	0423162 / 4778883	
Plot 12	0	0423128 / 4778993	
Plot 13	0	0423138 / 4779160	
Plot 14	0	0423015 / 4779183	
Plot 15	0	0423165 / 4779178	
Plot 16	0	0423188 / 4778848	
Plot 17	1	0423163 / 4778962	
Plot 18	0	0423150 / 4779109	
Plot 19	0	0423154 / 4779215	
Plot 20	0	0423143 / 4779299	
Plot 21	0	0423170 / 4779351	
Plot 22	0	0423154 / 4779453	
Plot 23	0	0423180 / 4779496	

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(Project Manager)



Plot No.	Total No. of Cavity Trees	Plot Center UTM (Zone: 17T)	Comments
Plot 24	0	0423210 / 4779562	
Plot 25	0	0423194 / 4779628	
Plot 26	0	0423141 / 4779653	
Plot 27	0	0423108 / 4779654	
Plot 28	0	0423051 / 4779697	
Plot 29	0	0422994 / 4779717	
Plot 30	0	0422953 / 4779688	
Plot 31	1	0423042 / 4779386	
Plot 32	0	0422908 / 4779606	
Plot 33	0	0422900 / 4779529	
Plot 34	0	0422915 / 4779506	
Plot 35	0	0422955 / 4779490	

TOTAL No. Cavity Trees: 2      Density Calculation: (use formula provided) 1.14      Trees/ha

<sup>1</sup>No. of Plots: Sites ≤ 10 ha; 10 plots (minimum); each extra ha: 1 plot (up to max 35 plots).  
Plots = 0.05 ha or 12.6m radius.  
Select plots randomly.

<sup>2</sup>Total Cavity Tree Density =  $\frac{\text{total \# cavity trees}}{(\# \text{ plots} \times 0.05 \text{ ha})}$

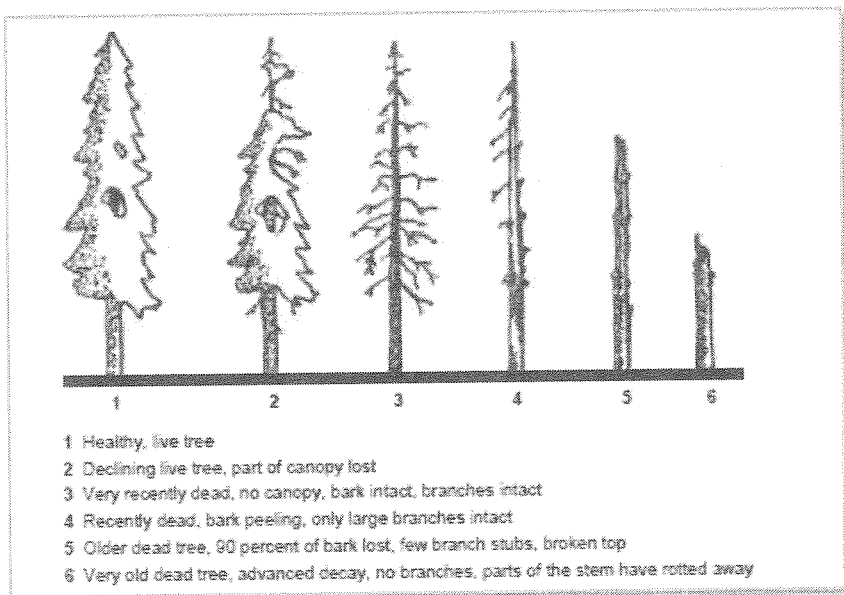


Figure 1: Decay classification system for cavity trees (Watt and Caceres, 1999)  
NOTE: Decay classifications 4-6 should not be tallied in plots.



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## Bat Maternity Roost - Cavity Tree Density Plots Data Form

(FOR USE IN FOD & FOM COMMUNITIES ONLY)

**Stantec**

Project Number: 160960709

Project Name: Ledar Point

<u>18/03/13</u>	<u>11:30</u>	<u>12:45</u>	<u>Katherine S. J. Ball</u>
DATE	TIME (start)	TIME (end)	Field Personnel
<u>-5</u>	<u>4</u>	<u>100%</u>	<u>-</u>
TEMP (°C)	WIND	CLOUD	PPT (in last 24 hrs)

Weather Conditions:

Feature #: 7

Feature Size (ha): 15

No. of Plots to Survey: 15

Plot No.	Total No. of Cavity Trees	Plot Center UTM (Zone: <u>17T</u> )	Comments
Plot 01	<u>0</u>	<u>0423014 / 4778200</u>	
Plot 02	<u>0</u>	<u>0423042 / 4778161</u>	
Plot 03	<u>0</u>	<u>0423034 / 4778113</u>	
Plot 04	<u>0</u>	<u>0423065 / 4778084</u>	
Plot 05	<u>0</u>	<u>0423083 / 4778052</u>	
Plot 06	<u>0</u>	<u>0423086 / 4778043</u>	
Plot 07	<u>0</u>	<u>0423122 / 4778012</u>	
Plot 08	<u>0</u>	<u>0423133 / 4777979</u>	
Plot 09	<u>0</u>	<u>0423069 / 4777950</u>	
Plot 10	<u>0</u>	<u>0423042 / 4777919</u>	
Plot 11	<u>0</u>	<u>0422998 / 4777897</u>	
Plot 12	<u>0</u>	<u>0423001 / 4777924</u>	
Plot 13	<u>0</u>	<u>0422982 / 4777967</u>	
Plot 14	<u>1</u>	<u>0422969 / 4778021</u>	
Plot 15	<u>0</u>	<u>0422962 / 4778104</u>	
Plot 16		/	
Plot 17		/	
Plot 18		/	
Plot 19		/	
Plot 20		/	
Plot 21		/	
Plot 22		/	
Plot 23		/	

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(Field Personnel)

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(Project Manager)



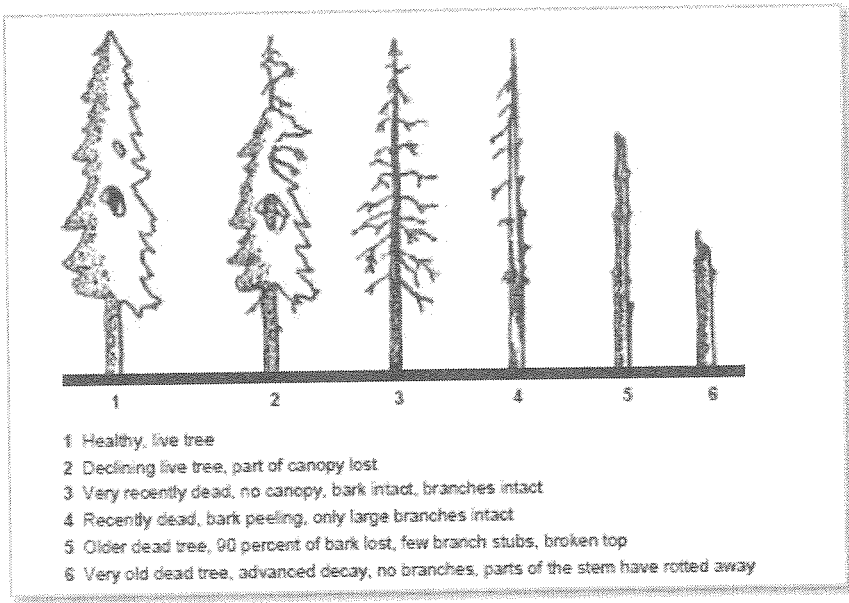
Plot No.	Total No. of Cavity Trees	Plot Center UTM (Zone: _____)	Comments
Plot 24		/	
Plot 25		/	
Plot 26		/	
Plot 27		/	
Plot 28		/	
Plot 29		/	
Plot 30		/	
Plot 31			
Plot 32		/	
Plot 33		/	
Plot 34		/	
Plot 35		/	

TOTAL No. Cavity Trees: 1

Density Calculation: (use formula provided<sup>2</sup>) 1.3 Trees/ha

<sup>1</sup>No. of Plots: Sites ≤ 10 ha; 10 plots (minimum); each extra ha: 1 plot (up to max 35 plots). Plots = 0.05 ha or 12.6m radius. Select plots randomly.

<sup>2</sup>Total Cavity Tree Density =  $\frac{\text{total \# cavity trees}}{(\# \text{ plots} \times 0.05 \text{ ha})}$



- Tundra Swans flying over (NW) - 12 birds  
- Raccoon - Plot 13

Figure 1: Decay classification system for cavity trees (Watt and Caceres, 1999)  
NOTE: Decay classifications 4-6 should not be tallied in plots.

Signature: \_\_\_\_\_  
(Field Personnel)

Quality Control: This form is complete  & legible

Signature: Kathryn [Signature]  
(Project Manager)



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## Bat Maternity Roost - Cavity Tree Density Plots Data Form

(FOR USE IN FOD & FOM COMMUNITIES ONLY)

Project Number: 160960709

Project Name: Cedar Point

<u>19/03/13</u>	<u>10:00</u>	<u>10:50</u>	<u>J. Ball</u>	
DATE	TIME (start)	TIME (end)	Field Personnel	
<u>-2</u>	<u>4</u>	<u>10090</u>	<u>Light Snow</u>	<u>Light Snow</u>
TEMP (°C)	WIND	CLOUD	PPT	PPT (in last 24 hrs)

Weather Conditions:

Feature #: 10 Feature Size (ha): 5.3 No. of Plots to Survey<sup>1</sup>: 10

Plot No.	Total No. of Cavity Trees	Plot Center UTM (Zone: <u>17T</u> )	Comments
Plot 01	<u>0</u>	<u>0420498 14777646</u>	
Plot 02	<u>0</u>	<u>0420558 14777626</u>	
Plot 03	<u>0</u>	<u>0420654 14777634</u>	
Plot 04	<u>0</u>	<u>0420705 14777632</u>	
Plot 05	<u>1</u>	<u>0420729 14777572</u>	
Plot 06	<u>0</u>	<u>0420732 14777497</u>	
Plot 07	<u>0</u>	<u>0420665 14777510</u>	
Plot 08	<u>0</u>	<u>0420614 14777541</u>	
Plot 09	<u>0</u>	<u>0420534 14777558</u>	
Plot 10	<u>0</u>	<u>0420516 14777575</u>	
Plot 11		/	
Plot 12		/	
Plot 13		/	
Plot 14		/	
Plot 15		/	
Plot 16		/	
Plot 17		/	
Plot 18		/	
Plot 19		/	
Plot 20		/	
Plot 21		/	
Plot 22		/	
Plot 23		/	

Page \_\_\_ of \_\_\_

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(Field Personnel)

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(Project Manager)



Plot No.	Total No. of Cavity Trees	Plot Center UTM (Zone: _____)	Comments
Plot 24		/	
Plot 25		/	
Plot 26		/	
Plot 27		/	
Plot 28		/	
Plot 29		/	
Plot 30		/	
Plot 31		/	
Plot 32		/	
Plot 33		/	
Plot 34		/	
Plot 35		/	

TOTAL No. Cavity Trees: 1

Density Calculation: (use formula provided<sup>2</sup>) 2 Trees/ha

<sup>1</sup>No. of Plots: Sites ≤ 10 ha: 10 plots (minimum); each extra ha: 1 plot (up to max 35 plots).  
Plots = 0.05 ha or 12.6m radius.  
Select plots randomly.

<sup>2</sup>Total Cavity Tree Density =  $\frac{\text{total \# cavity trees}}{(\# \text{ plots} \times 0.05 \text{ ha})}$

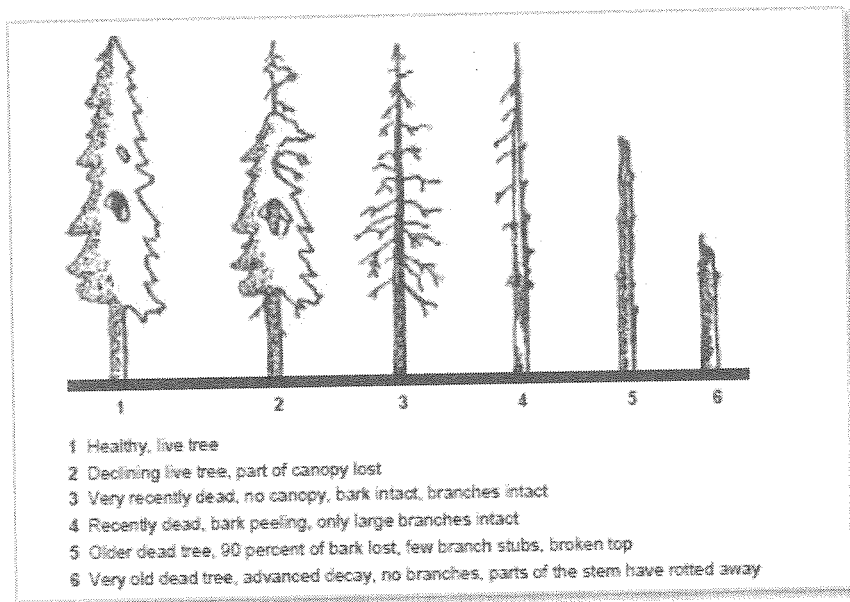


Figure 1: Decay classification system for cavity trees (Watt and Caceres, 1999)  
NOTE: Decay classifications 4-6 should not be tallied in plots.



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## Bat Maternity Roost - Cavity Tree Density Plots Data Form

(FOR USE IN FOD & FOM COMMUNITIES ONLY)

Project Number: 160960709

Project Name: Cedar Point

<u>18/03/13</u>	<u>13:00</u>	<u>13:40</u>	<u>Katherine S</u>	
DATE	TIME (start)	TIME (end)	Field Personnel	
<u>-5</u>	<u>4</u>	<u>10090</u>	<u>-</u>	<u>-</u>
TEMP (°C)	WIND	CLOUD	PPT	PPT (in last 24 hrs)

Weather Conditions:

Feature #: 18 Feature Size (ha): 10.6 No. of Plots to Survey: 11

Plot No.	Total No. of Cavity Trees	Plot Center UTM (Zone: <u>JTT</u> )	Comments
Plot 01	0	0418891 / 4776496	
Plot 02	0	0418889 / 4776466	
Plot 03	0	0418891 / 4776451	
Plot 04	0	0419030 / 4776482	
Plot 05	0	0419096 / 4776442	
Plot 06	0	0419112 / 4776393	
Plot 07	0	0419071 / 4776393	
Plot 08	0	0419073 / 4776423	
Plot 09	0	0419068 / 4776307	
Plot 10	0	0419082 / 4776231	
Plot 11	0	0418971 / 4776225	
Plot 12		/	
Plot 13		/	
Plot 14		/	
Plot 15		/	
Plot 16		/	
Plot 17		/	
Plot 18		/	
Plot 19		/	
Plot 20		/	
Plot 21		/	
Plot 22		/	
Plot 23		/	

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(Field Personnel)

Quality Control: This form is complete  & legible .

Signature: \_\_\_\_\_

(Project Manager)



Plot No.	Total No. of Cavity Trees	Plot Center UTM (Zone: _____)	Comments
Plot 24		/	
Plot 25		/	
Plot 26		/	
Plot 27		/	
Plot 28		/	
Plot 29		/	
Plot 30		/	
Plot 31		/	
Plot 32		/	
Plot 33		/	
Plot 34		/	
Plot 35		/	

TOTAL No. Cavity Trees: 0

Density Calculation: (use formula provided<sup>2</sup>) 0

Trees/ha

<sup>1</sup>No. of Plots: Sites ≤ 10 ha: 10 plots (minimum); each extra ha: 1 plot (up to max 35 plots). Plots = 0.05 ha or 12.6m radius. Select plots randomly.

<sup>2</sup>Total Cavity Tree Density =  $\frac{\text{total \# cavity trees}}{(\# \text{ plots} \times 0.05 \text{ ha})}$

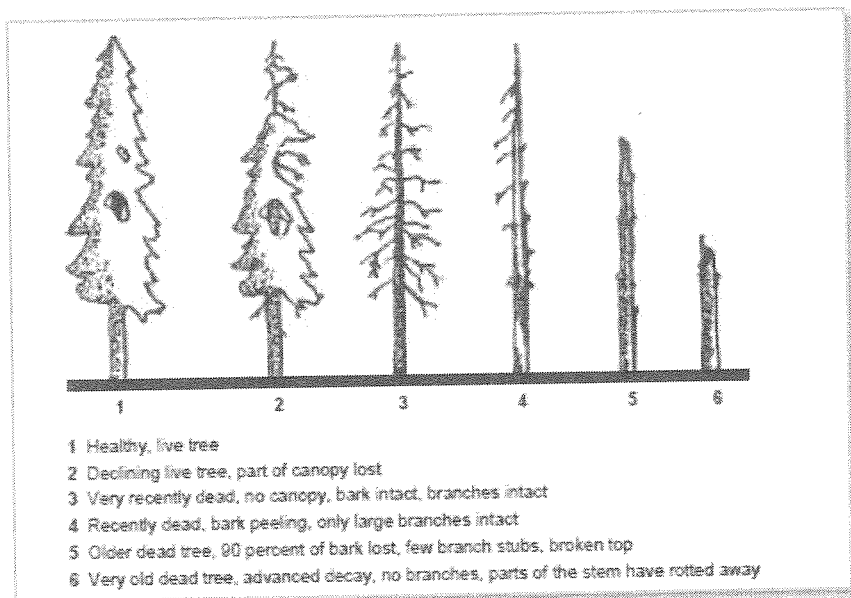


Figure 1: Decay classification system for cavity trees (Watt and Caceres, 1999)  
 NOTE: Decay classifications 4-6 should not be tallied in plots.



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## Bat Maternity Roost - Cavity Tree Density Plots Data Form

(FOR USE IN FOD & FOM COMMUNITIES ONLY)

Project Number: 160960709

Project Name: Cedar Point

<u>18/03/13</u>	<u>13:50</u>	<u>14:40</u>	<u>Katherine S.</u>
DATE	TIME (start)	TIME (end)	Field Personnel

<u>-8</u>	<u>6</u>	<u>100%</u>	<u>Light Snow</u>	<u>—</u>
TEMP (°C)	WIND	CLOUD	PPT	PPT (in last 24 hrs)

Feature #: 19 Feature Size (ha): 24.7 No. of Plots to Survey<sup>1</sup>: 25

Plot No.	Total No. of Cavity Trees	Plot Center UTM (Zone: <u>17T</u> )	Comments
Plot 01	0	0418841 / 4775889	*Note: Poor GPS accuracy in woodlot - Plots do not overlap but may appear to be based on UTM's only
Plot 02	0	0418838 / 4775891	
Plot 03	0	0418813 / 4775889	
Plot 04	0	0418789 / 4775895	
Plot 05	0	0418748 / 4775901	
Plot 06	1	0418738 / 4775900	
Plot 07	0	0418747 / 4775877	
Plot 08	0	0418767 / 4775866	
Plot 09	0	0418795 / 4775873	
Plot 10	1	0418803 / 4775868	
Plot 11	1	0418831 / 4775842	
Plot 12	0	0418804 / 4775822	
Plot 13	0	0418783 / 4775822	
Plot 14	1	0418735 / 4775799	
Plot 15	0	0418708 / 4775775	
Plot 16	0	0418695 / 4775757	
Plot 17	0	0418722 / 4775752	
Plot 18	0	0418724 / 4775751	
Plot 19	0	0418776 / 4775772	
Plot 20	0	0418784 / 4775774	
Plot 21	0	0418821 / 4775741	
Plot 22	0	0418805 / 4775718	
Plot 23	0	0418792 / 4775701	

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(Field Personnel)

(Project Manager)

REV: 2013-03-13



Plot No.	Total No. of Cavity Trees	Plot Center UTM (Zone: <u>LZT</u> )	Comments
Plot 24	<u>0</u>	<u>0418768 14775695</u>	
Plot 25	<u>1</u>	<u>0418733 14775692</u>	
Plot 26		/	
Plot 27		/	
Plot 28		/	
Plot 29		/	
Plot 30		/	
Plot 31			
Plot 32		/	
Plot 33		/	
Plot 34		/	
Plot 35		/	

TOTAL No. Cavity Trees: 5

Density Calculation: (use formula provided<sup>2</sup>)

4

Trees/ha

<sup>1</sup>No. of Plots: Sites ≤ 10 ha: 10 plots (minimum); each extra ha: 1 plot (up to max 35 plots). Plots = 0.05 ha or 12.6m radius. Select plots randomly.

$$^2\text{Total Cavity Tree Density} = \frac{\text{total \# cavity trees}}{(\# \text{ plots} \times 0.05 \text{ ha})}$$

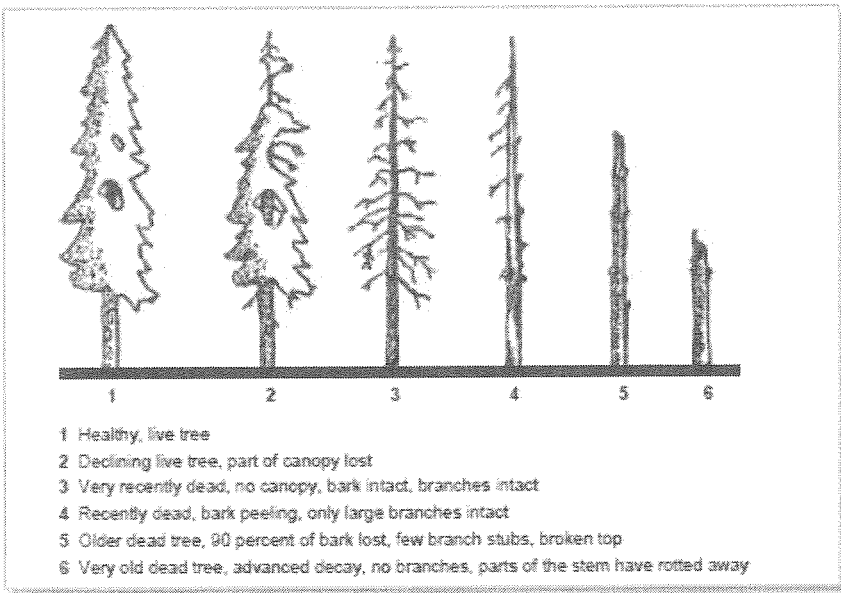


Figure 1: Decay classification system for cavity trees (Watt and Caceres, 1999)

NOTE: Decay classifications 4-6 should not be tallied in plots.

Page \_\_\_ of \_\_\_

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(Field Personnel)

Quality Control: This form is complete  & legible

Signature: \_\_\_\_\_

(Project Manager)

REV: 2013-03-13



Stantec Consulting Ltd.  
 1 - 70 Southgate Drive  
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 Tel: (519) 836-6050  
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**Stantec**

**Bat Maternity Roost -  
 Cavity Tree Density Plots  
 Data Form**

(FOR USE IN FOD & FOM COMMUNITIES ONLY)

Project Number:

160960709

Project Name:

Cedar Point

<u>18/03/13</u>	<u>14:50</u>	<u>15:15</u>	<u>Katherine S</u>	
DATE	TIME (start)	TIME (end)	Field Personnel	
<u>-7</u>	<u>5</u>	<u>100%</u>	<u>✓</u>	<u>some light snow</u>
TEMP (°C)	WIND	CLOUD	PPT	PPT (in last 24 hrs)

Weather Conditions:

Feature #:

20

Feature Size (ha):

3.2

No. of Plots to Survey<sup>1</sup>:

10

Plot No.	Total No. of Cavity Trees	Plot Center UTM (Zone: <u>17T</u> )	Comments
Plot 01	<u>0</u>	<u>0418430 / 4775617</u>	
Plot 02	<u>0</u>	<u>0418373 / 4775585</u>	
Plot 03	<u>0</u>	<u>0418365 / 4775582</u>	
Plot 04	<u>0</u>	<u>0418290 / 4775594</u>	
Plot 05	<u>0</u>	<u>0418221 / 4775577</u>	
Plot 06	<u>0</u>	<u>0418160 / 4775616</u>	
Plot 07	<u>0</u>	<u>0418192 / 477672</u>	
Plot 08	<u>0</u>	<u>0418245 / 4775669</u>	
Plot 09	<u>1</u>	<u>0418308 / 4775653</u>	
Plot 10	<u>0</u>	<u>0418336 / 4775632</u>	
Plot 11		/	
Plot 12		/	
Plot 13		/	
Plot 14		/	
Plot 15		/	
Plot 16		/	
Plot 17		/	
Plot 18		/	
Plot 19		/	
Plot 20		/	
Plot 21		/	
Plot 22		/	
Plot 23		/	

10 Tundra Swans  
 Fly-over

Page \_\_\_ of \_\_\_

Signature: \_\_\_\_\_

(Field Personnel)

Quality Control: This form is complete  & legible .

Signature: \_\_\_\_\_

(Project Manager)

REV. 2013-03-13



Plot No.	Total No. of Cavity Trees	Plot Center UTM (Zone: _____)	Comments
Plot 24		/	
Plot 25		/	
Plot 26		/	
Plot 27		/	
Plot 28		/	
Plot 29		/	
Plot 30		/	
Plot 31			
Plot 32		/	
Plot 33		/	
Plot 34		/	
Plot 35		/	

TOTAL No. Cavity Trees: 1      Density Calculation: (use formula provided<sup>2</sup>) 2      Trees/ha

<sup>1</sup>No. of Plots: Sites ≤ 10 ha: 10 plots (minimum); each extra ha: 1 plot (up to max 35 plots).  
 Plots = 0.05 ha or 12.6m radius.  
 Select plots randomly.

<sup>2</sup>Total Cavity Tree Density =  $\frac{\text{total \# cavity trees}}{(\# \text{ plots} \times 0.05 \text{ ha})}$

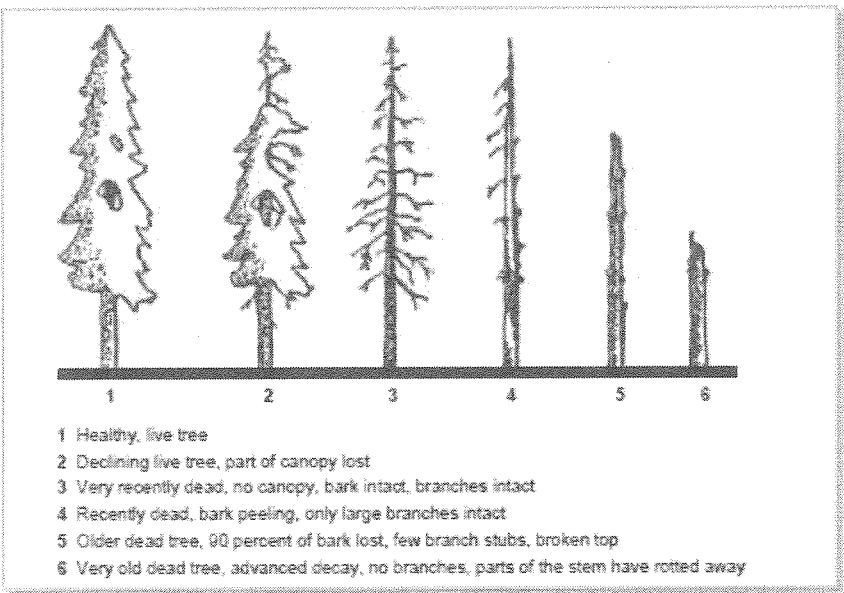


Figure 1: Decay classification system for cavity trees (Watt and Caceres, 1999)  
 NOTE: Decay classifications 4-6 should not be tallied in plots.

Page \_\_\_ of \_\_\_  
 Signature: \_\_\_\_\_  
 (Field Personnel)

Quality Control: This form is complete  & legible   
 Signature: [Signature]  
 (Project Manager)



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## Bat Maternity Roost - Cavity Tree Density Plots Data Form

(FOR USE IN FOD & FOM COMMUNITIES ONLY)

Project Number: <u>160960709</u>	Project Name: <u>Cedar Point</u>		
DATE: <u>19/03/13</u>	TIME (start): <u>12:40</u>	TIME (end): <u>13:14</u>	Field Personnel: <u>Katherine S</u>
Weather Conditions: <u>-4</u>	<u>4</u>	<u>100%</u>	<u>—</u>
TEMP (°C)	WIND	CLOUD	PPT
			PPT (in last 24 hrs) <u>Light Snow</u>

Feature #: 23 Feature Size (ha): 8.9 No. of Plots to Survey<sup>1</sup>: 10

Plot No.	Total No. of Cavity Trees	Plot Center UTM (Zone: <u>17T</u> )	Comments
Plot 01	0	<u>0418875 14775050</u>	
Plot 02	0	<u>0418881 14775099</u>	
Plot 03	0	<u>0418860 14775145</u>	
Plot 04	0	<u>0418876 14775231</u>	
Plot 05	0	<u>0418869 14775286</u>	
Plot 06	1	<u>0418907 14775373</u>	
Plot 07	0	<u>0418908 14775428</u>	
Plot 08	0	<u>0418969 14775425</u>	
Plot 09	0	<u>0418990 14775348</u>	
Plot 10	0	<u>0419005 14775265</u>	
Plot 11		/	
Plot 12		/	
Plot 13		/	
Plot 14		/	
Plot 15		/	
Plot 16		/	
Plot 17		/	
Plot 18		/	
Plot 19		/	
Plot 20		/	
Plot 21		/	
Plot 22		/	
Plot 23		/	

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 (Field Personnel)

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 (Project Manager)



Plot No.	Total No. of Cavity Trees	Plot Center UTM (Zone: _____)	Comments
Plot 24		/	
Plot 25		/	
Plot 26		/	
Plot 27		/	
Plot 28		/	
Plot 29		/	
Plot 30		/	
Plot 31		/	
Plot 32		/	
Plot 33		/	
Plot 34		/	
Plot 35		/	

TOTAL No. Cavity Trees: 1

Density Calculation:  
(use formula provided<sup>2</sup>)

2 Trees/ha

<sup>1</sup>No. of Plots: Sites ≤ 10 ha: 10 plots (minimum); each extra ha: 1 plot (up to max 35 plots).  
Plots = 0.05 ha or 12.6m radius.  
Select plots randomly.

$$^2\text{Total Cavity Tree Density} = \frac{\text{total \# cavity trees}}{(\# \text{ plots} \times 0.05 \text{ ha})}$$

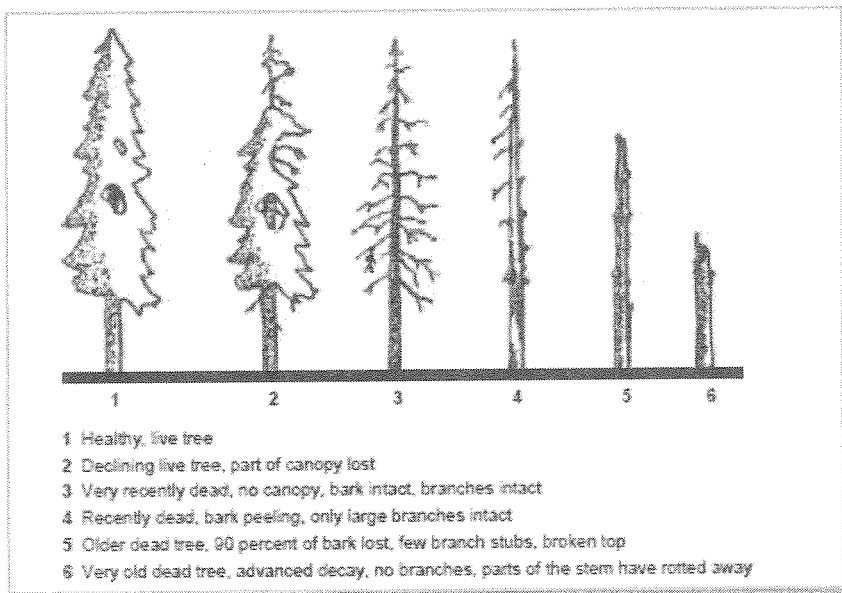


Figure 1: Decay classification system for cavity trees (Watt and Caceres, 1999)

NOTE: Decay classifications 4-6 should not be tallied in plots.

Page \_\_\_ of \_\_\_

Signature: \_\_\_\_\_  
(Field Personnel)

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Signature: Walter S.  
(Project Manager)



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## Bat Maternity Roost - Cavity Tree Density Plots Data Form

(FOR USE IN FOD & FOM COMMUNITIES ONLY)

Project Number: 160960709

Project Name: Cedar Point

19/03/13	10:00	11:10	Katherine S
DATE	TIME (start)	TIME (end)	Field Personnel

Weather Conditions: <u>-4</u>	<u>4</u>	<u>100%</u>	<u>Light Snow</u>
TEMP (°C)	WIND	CLOUD	PPT PRJ (in last 24 hrs)

Feature #: 25 Feature Size (ha): 16.7 No. of Plots to Survey<sup>1</sup>: 17

Plot No.	Total No. of Cavity Trees	Plot Center UTM (Zone: <u>17T</u> )	Comments
Plot 01	0	0420926 / 4774583	* Large amount of selective logging in wood lot
Plot 02	0	0420992 / 4774585	
Plot 03	0	0421053 / 4774529	
Plot 04	0	04221043 / 4774467	
Plot 05	0	0420995 / 4774480	
Plot 06	1	0420928 / 4774454	
Plot 07	1	0420962 / 4774406	
Plot 08	1	0421006 / 4774349	
Plot 09	1	0420978 / 4774274	
Plot 10	0	0420955 / 4774231	
Plot 11	0	0420927 / 4774147	
Plot 12	1	0420900 / 4774095	
Plot 13	0	0420781 / 4774128	
Plot 14	0	0420700 / 4774219	
Plot 15	0	0420592 / 4774324	
Plot 16	2	0420564 / 4774364	
Plot 17	0	0420607 / 4774399	
Plot 18		/	
Plot 19		/	
Plot 20		/	
Plot 21		/	
Plot 22		/	
Plot 23		/	

Signature: \_\_\_\_\_  
 (Field Personnel)

Signature: \_\_\_\_\_  
 (Project Manager)



Plot No.	Total No. of Cavity Trees	Plot Center UTM (Zone: _____)	Comments
Plot 24		/	
Plot 25		/	
Plot 26		/	
Plot 27		/	
Plot 28		/	
Plot 29		/	
Plot 30		/	
Plot 31			
Plot 32		/	
Plot 33		/	
Plot 34		/	
Plot 35		/	

TOTAL No. Cavity Trees: 7

Density Calculation: (use formula provided<sup>2</sup>)

8.2

Trees/ha

<sup>1</sup>No. of Plots: Sites ≤ 10 ha; 10 plots (minimum); each extra ha: 1 plot (up to max 35 plots). Plots = 0.05 ha or 12.6m radius. Select plots randomly.

<sup>2</sup>Total Cavity Tree Density =  $\frac{\text{total \# cavity trees}}{(\# \text{ plots} \times 0.05 \text{ ha})}$

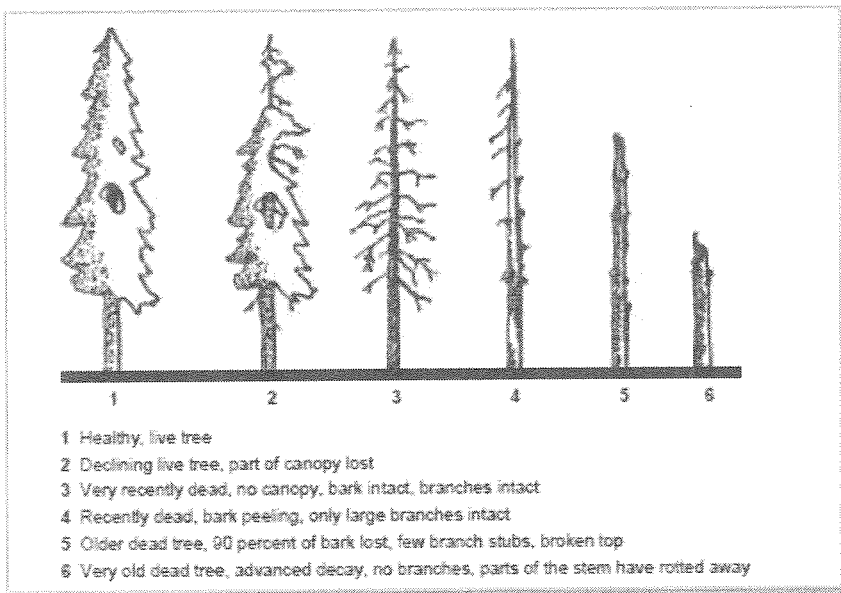


Figure 1: Decay classification system for cavity trees (Watt and Caceres, 1999)  
 NOTE: Decay classifications 4-6 should not be tallied in plots.



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**Bat Maternity Roost -  
 Cavity Tree Density Plots  
 Data Form**

(FOR USE IN FOD & FOM COMMUNITIES ONLY)

Project Number: 160960709

Project Name: Cedar Point

<u>19/03/13</u>	<u>11:30</u>	<u>12:10</u>	<u>Katherine S</u>
DATE	TIME (start)	TIME (end)	Field Personnel
<u>-4</u>	<u>4</u>	<u>100%</u>	<u>Light Snow</u>
TEMP (°C)	WIND	CLOUD	PPT (in last 24 hrs)

Weather Conditions:

Feature #: 28 Feature Size (ha): 6.3 No. of Plots to Survey<sup>1</sup>: 10

Plot No.	Total No. of Cavity Trees	Plot Center UTM (Zone: <u>17T</u> )	Comments
Plot 01	<u>0</u>	<u>0421240 14771043</u>	
Plot 02	<u>1</u>	<u>0421286 14771028</u>	
Plot 03	<u>1</u>	<u>0421356 14771079</u>	
Plot 04	<u>0</u>	<u>0421362 14771079</u>	
Plot 05	<u>1</u>	<u>0421374 14771066</u>	
Plot 06	<u>0</u>	<u>0421389 14771114</u>	
Plot 07	<u>0</u>	<u>0421331 14771199</u>	
Plot 08	<u>1</u>	<u>0421316 14771164</u>	
Plot 09	<u>0</u>	<u>0421308 14771160</u>	
Plot 10	<u>0</u>	<u>0421209 14771223</u>	
Plot 11		/	
Plot 12		/	
Plot 13		/	
Plot 14		/	
Plot 15		/	
Plot 16		/	
Plot 17		/	
Plot 18		/	
Plot 19		/	
Plot 20		/	
Plot 21		/	
Plot 22		/	
Plot 23		/	

*RTHA  
RBWO*

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(Field Personnel)

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(Project Manager)



Plot No.	Total No. of Cavity Trees	Plot Center UTM (Zone: _____)	Comments
Plot 24		/	
Plot 25		/	
Plot 26		/	
Plot 27		/	
Plot 28		/	
Plot 29		/	
Plot 30		/	
Plot 31			
Plot 32		/	
Plot 33		/	
Plot 34		/	
Plot 35		/	

TOTAL No. Cavity Trees: 4      Density Calculation: (use formula provided<sup>2</sup>) 8      Trees/ha

<sup>1</sup>No. of Plots: Sites ≤ 10 ha; 10 plots (minimum); each extra ha: 1 plot (up to max 35 plots).  
Plots = 0.05 ha or 12.6m radius.  
Select plots randomly.

<sup>2</sup>Total Cavity Tree Density =  $\frac{\text{total \# cavity trees}}{(\# \text{ plots} \times 0.05 \text{ ha})}$

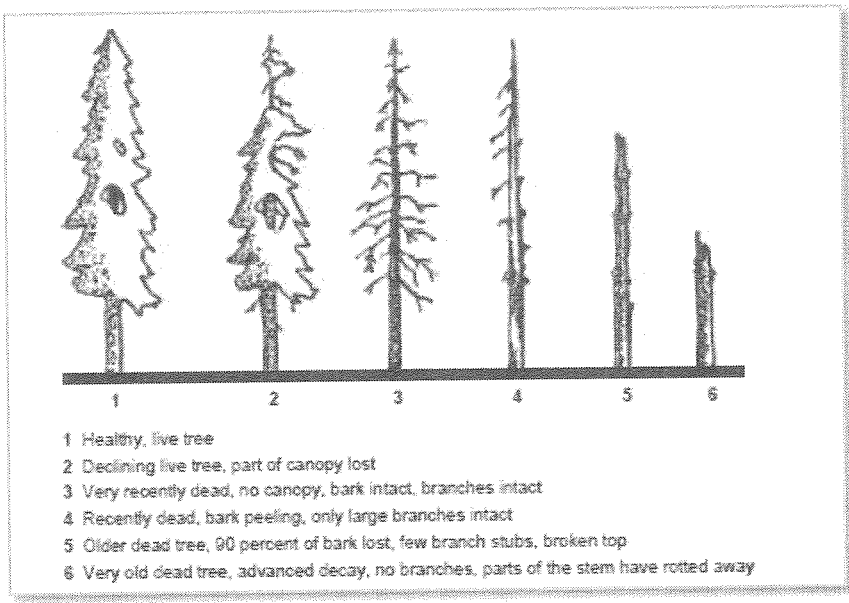


Figure 1: Decay classification system for cavity trees (Watt and Caceres, 1999)  
NOTE: Decay classifications 4-6 should not be tallied in plots.

Signature: \_\_\_\_\_  
(Field Personnel)

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Signature: [Signature]  
(Project Manager)



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## Bat Maternity Roost - Cavity Tree Density Plots Data Form

(FOR USE IN FOD & FOM COMMUNITIES ONLY)

Project Number: 160960709

Project Name: Cedar Point

<u>19/03/13</u>	<u>8:30</u>	<u>9:10</u>	<u>Katherine S</u>
DATE	TIME (start)	TIME (end)	Field Personnel

Weather Conditions: <u>-3</u>	<u>3</u>	<u>100%</u>	<u>Light Snow</u>	<u>Light Snow</u>
TEMP (°C)	WIND	CLOUD	PPT	PPT (in last 24 hrs)

Feature #: 29 Feature Size (ha): 12.3 No. of Plots to Survey<sup>1</sup>: 12

Plot No.	Total No. of Cavity Trees	Plot Center UTM (Zone: <u>17T</u> )	Comments
Plot 01	0	0422940 / 4774888	
Plot 02	1	0422937 / 4774859	
Plot 03	1	0422957 / 4774809	
Plot 04	0	0422945 / 4774749	
Plot 05	0	0422897 / 4774806	
Plot 06	1	0422885 / 4774830	
Plot 07	0	0422923 / 4775802	
Plot 08	0	0422888 / 4775018	
Plot 09	0	0422857 / 4775035	
Plot 10	0	0422837 / 4775067	
Plot 11	0	0422864 / 4775100	
Plot 12	0	0422893 / 4775087	
Plot 13		/	
Plot 14		/	
Plot 15		/	
Plot 16		/	
Plot 17		/	
Plot 18		/	
Plot 19		/	
Plot 20		/	
Plot 21		/	
Plot 22		/	
Plot 23		/	

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(Field Personnel)

(Project Manager)

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Plot No.	Total No. of Cavity Trees	Plot Center UTM (Zone: _____)	Comments
Plot 24		/	
Plot 25		/	
Plot 26		/	
Plot 27		/	
Plot 28		/	
Plot 29		/	
Plot 30		/	
Plot 31			
Plot 32		/	
Plot 33		/	
Plot 34		/	
Plot 35		/	

TOTAL No. of Cavity Trees: 3

Density Calculation: (use formula provided<sup>2</sup>)

5

Trees/ha

<sup>1</sup>No. of Plots: Sites ≤ 10 ha: 10 plots (minimum); each extra ha: 1 plot (up to max 35 plots). Plots = 0.05 ha or 12.6m radius. Select plots randomly.

<sup>2</sup>Total Cavity Tree Density =  $\frac{\text{total \# cavity trees}}{(\# \text{ plots} \times 0.05 \text{ ha})}$

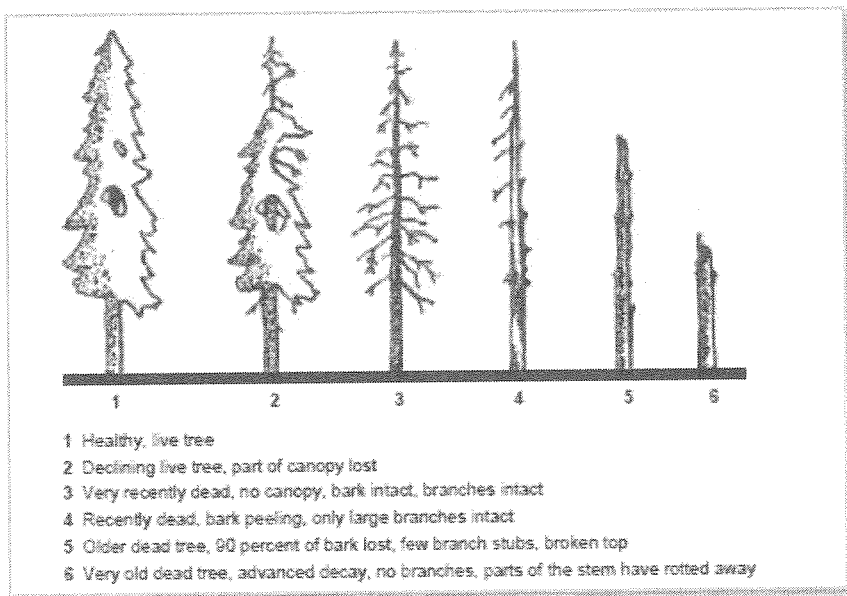


Figure 1: Decay classification system for cavity trees (Watt and Caceres, 1999)  
 NOTE: Decay classifications 4-6 should not be tallied in plots.



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## Bat Maternity Roost - Cavity Tree Density Plots Data Form

(FOR USE IN FOD & FOM COMMUNITIES ONLY)



Project Number: 160960709

Project Name: Cedar Point

19/03/13	9:15	9:45	Katharine S
DATE	TIME (start)	TIME (end)	Field Personnel
-3	4	100%	—
TEMP (°C)	WIND	CLOUD	PPT
			PPT (in last 24 hrs)

Weather Conditions:

Feature #: 30 Feature Size (ha): 5.2 No. of Plots to Survey<sup>1</sup>: 10

Plot No.	Total No. of Cavity Trees	Plot Center UTM (Zone: <u>17T</u> )	Comments
Plot 01	0	0422974 / 4775638	
Plot 02	0	0423052 / 4775574	
Plot 03	0	0423101 / 4775582	
Plot 04	0	0423103 / 4775633	
Plot 05	0	0423092 / 4775690	
Plot 06	0	0423087 / 4775688	
Plot 07	0	0423030 / 4775712	
Plot 08	0	0423015 / 4775680	
Plot 09	0	0423023 / 4775670	
Plot 10	0	0423002 / 4775639	
Plot 11		/	
Plot 12		/	
Plot 13		/	
Plot 14		/	
Plot 15		/	
Plot 16		/	
Plot 17		/	
Plot 18		/	
Plot 19		/	
Plot 20		/	
Plot 21		/	
Plot 22		/	
Plot 23		/	

Signature: \_\_\_\_\_  
 (Field Personnel)

Signature: \_\_\_\_\_  
 (Project Manager)



Plot No.	Total No. of Cavity Trees	Plot Center UTM (Zone: _____)	Comments
Plot 24		/	
Plot 25		/	
Plot 26		/	
Plot 27		/	
Plot 28		/	
Plot 29		/	
Plot 30		/	
Plot 31			
Plot 32		/	
Plot 33		/	
Plot 34		/	
Plot 35		/	

TOTAL No. Cavity Trees: 0      Density Calculation: (use formula provided<sup>2</sup>) 0      Trees/ha

<sup>1</sup>No. of Plots: Sites ≤ 10 ha: 10 plots (minimum); each extra ha: 1 plot (up to max 35 plots).  
Plots = 0.05 ha or 12.6m radius.  
Select plots randomly.

<sup>2</sup>Total Cavity Tree Density =  $\frac{\text{total \# cavity trees}}{(\# \text{ plots} \times 6.05 \text{ ha})}$

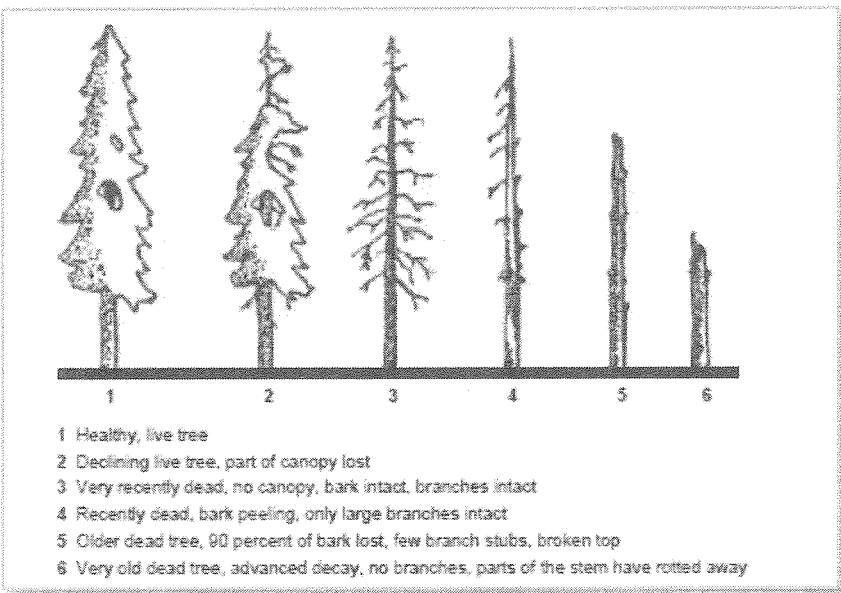


Figure 1: Decay classification system for cavity trees (Watt and Caceres, 1999)  
NOTE: Decay classifications 4-6 should not be tallied in plots.



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## Bat Maternity Roost - Cavity Tree Density Plots Data Form

(FOR USE IN FOD & FOM COMMUNITIES ONLY)

Project Number: 160960709

Project Name: Cedar Point

19/03/13

12:40

14:00

J. Ball

DATE

TIME (start)

TIME (end)

Field Personnel

Weather Conditions:

-2

4

100%

Light Snow

Light Snow

TEMP (°C)

WIND

CLOUD

PPT

PPT (in last 24 hrs)

Feature #: 31 Feature Size (ha): 17 No. of Plots to Survey<sup>1</sup>: 17

Plot No.	Total No. of Cavity Trees	Plot Center UTM (Zone: <u>17T</u> )	Comments
Plot 01	0	0416460 14775899	
Plot 02	0	0416522 14775954	
Plot 03	0	0416561 14776046	
Plot 04	1	0416558 14776124	
Plot 05	0	0416552 14776270	
Plot 06	0	0416458 14776259	
Plot 07	0	0416434 14776147	
Plot 08	0	0416357 14776062	
Plot 09	0	0416402 14775950	
Plot 10	0	0416465 14776148	
Plot 11	0	0416451 14776227	
Plot 12	0	0416362 14776076	
Plot 13	0	0416317 14775986	
Plot 14	0	0416372 14775901	
Plot 15	0	0416483 14775911	raccoon burrowed in fallen down snag
Plot 16	0	0416548 14775975	
Plot 17	0	0416370 14775898	
Plot 18		/	
Plot 19		/	
Plot 20		/	
Plot 21		/	
Plot 22		/	
Plot 23		/	

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(Field Personnel)

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Signature: \_\_\_\_\_

(Project Manager)

REV: 2012.02.12



Plot No.	Total No. of Cavity Trees	Plot Center UTM (Zone: _____)	Comments
Plot 24		/	
Plot 25		/	
Plot 26		/	
Plot 27		/	
Plot 28		/	
Plot 29		/	
Plot 30		/	
Plot 31			
Plot 32		/	
Plot 33		/	
Plot 34		/	
Plot 35		/	

TOTAL No. of Cavity Trees: 1

Density Calculation: (use formula provided<sup>2</sup>)

1.0

Trees/ha

<sup>1</sup>No. of Plots: Sites ≤ 10 ha: 10 plots (minimum); each extra ha: 1 plot (up to max 35 plots). Plots = 0.05 ha or 12.6m radius. Select plots randomly.

$$^2\text{Total Cavity Tree Density} = \frac{\text{total \# cavity trees}}{(\# \text{ plots} \times 0.05 \text{ ha})}$$

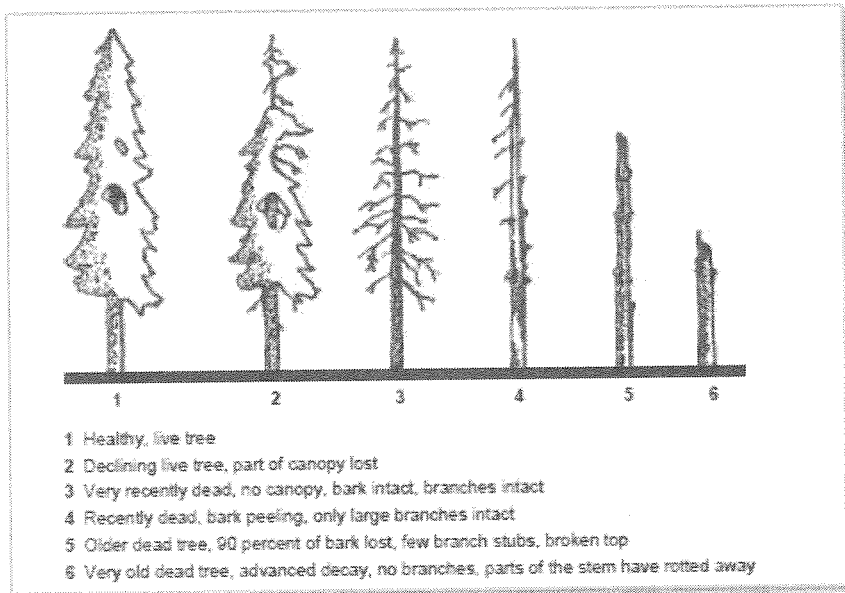


Figure 1: Decay classification system for cavity trees (Watt and Caceres, 1999)  
 NOTE: Decay classifications 4-6 should not be tallied in plots.



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**Bat Maternity Roost -  
 Cavity Tree Density Plots  
 Data Form**

(FOR USE IN FOD & FOM COMMUNITIES ONLY)

Project Number: 160960709

Project Name: Cedar Point

<u>19/03/13</u>	<u>11:15</u>	<u>12:30</u>	<u>J. Ball</u>
DATE	TIME (start)	TIME (end)	Field Personnel

Weather Conditions:

<u>-2</u>	<u>4</u>	<u>1000/0</u>	<u>-</u>	<u>-</u>
TEMP (°C)	WIND	CLOUD	PPT	PPT (in last 24 hrs)

Feature #: 32 Feature Size (ha): 15 No. of Plots to Survey<sup>1</sup>: 15

Plot No.	Total No. of Cavity Trees	Plot Center UTM (Zone: <u>L7T</u> )	Comments
Plot 01	0	0416812 14775392	
Plot 02	0	0416782 14775468	
Plot 03	0	0416710 14775578	
Plot 04	0	0416687 14775665	
Plot 05	0	0416647 14775514	
Plot 06	0	0416618 14775451	
Plot 07	0	0416526 14775448	
Plot 08	0	0416477 14775431	
Plot 09	0	0416376 14775434	
Plot 10	0	0416407 14775480	
Plot 11	0	0416477 14775472	
Plot 12	0	0416499 14775598	
Plot 13	0	0416449 14775678	
Plot 14	0	0416414 14775657	
Plot 15	0	0416365 14775616	
Plot 16		/	
Plot 17		/	
Plot 18		/	
Plot 19		/	
Plot 20		/	
Plot 21		/	
Plot 22		/	
Plot 23		/	

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 (Field Personnel)

Signature: \_\_\_\_\_  
 (Project Manager)



Plot No.	Total No. of Cavity Trees	Plot Center UTM (Zone: _____)	Comments
Plot 24		/	
Plot 25		/	
Plot 26		/	
Plot 27		/	
Plot 28		/	
Plot 29		/	
Plot 30		/	
Plot 31			
Plot 32		/	
Plot 33		/	
Plot 34		/	
Plot 35		/	

TOTAL No. Cavity Trees: 0      Density Calculation: (use formula provided<sup>2</sup>) 0      Trees/ha

<sup>1</sup>No. of Plots: Sites ≤ 10 ha: 10 plots (minimum); each extra ha: 1 plot (up to max 35 plots). Plots = 0.05 ha or 12.6m radius. Select plots randomly.

<sup>2</sup>Total Cavity Tree Density =  $\frac{\text{total \# cavity trees}}{(\# \text{ plots} \times 0.05 \text{ ha})}$

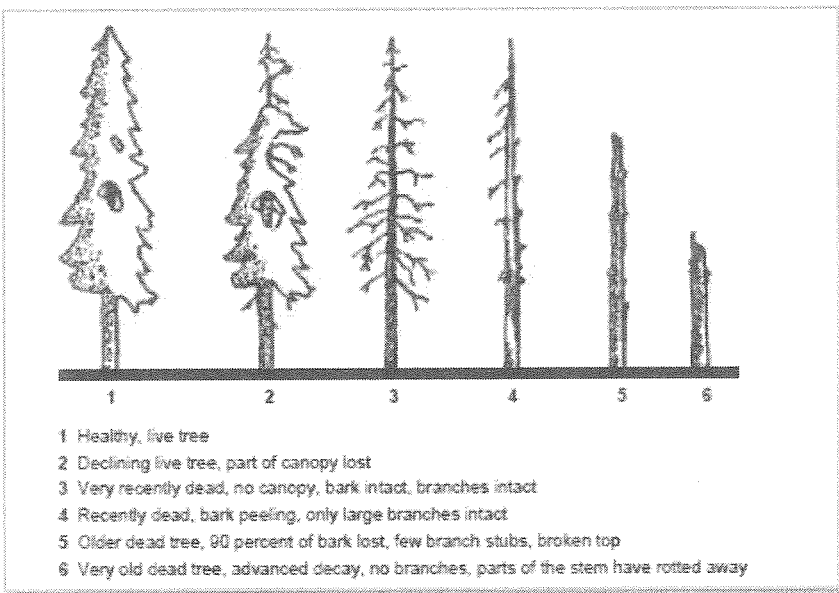


Figure 1: Decay classification system for cavity trees (Watt and Caceres, 1999)  
 NOTE: Decay classifications 4-6 should not be tallied in plots.



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## Bat Maternity Roost - Cavity Tree Density Plots Data Form

(FOR USE IN FOD & FOM COMMUNITIES ONLY)

Project Number: 160960709

Project Name: Cedar Point

<u>19/03/13</u>	<u>14:40</u>	<u>15:40</u>	<u>J. Ball</u>	
DATE	TIME (start)	TIME (end)	Field Personnel	
<u>-3</u>	<u>4</u>	<u>100%</u>	<u>Light Snow</u>	<u>Light Snow</u>
TEMP (°C)	WIND	CLOUD	PPT	PPT (in last 24 hrs)

Weather Conditions:

Feature #: 33 Feature Size (ha): 10.8 No. of Plots to Survey<sup>1</sup>: 11

Plot No.	Total No. of Cavity Trees	Plot Center UTM (Zone: <u>17T</u> )	Comments
Plot 01	<u>0</u>	<u>0416922 / 4774925</u>	
Plot 02	<u>0</u>	<u>0416824 / 4774899</u>	
Plot 03	<u>0</u>	<u>0416799 / 4774828</u>	<u>stick nest (w/hay) in large maple</u>
Plot 04	<u>0</u>	<u>0416789 / 4774739</u>	
Plot 05	<u>0</u>	<u>0416781 / 4774612</u>	
Plot 06	<u>0</u>	<u>0416775 / 4774488</u>	
Plot 07	<u>0</u>	<u>0416785 / 4774397</u>	
Plot 08	<u>0</u>	<u>0416792 / 4774475</u>	
Plot 09	<u>0</u>	<u>0416812 / 4774623</u>	
Plot 10	<u>0</u>	<u>0416863 / 4774635</u>	
Plot 11	<u>0</u>	<u>0416824 / 4774762</u>	
Plot 12		<u>/</u>	
Plot 13		<u>/</u>	
Plot 14		<u>/</u>	
Plot 15		<u>/</u>	
Plot 16		<u>/</u>	
Plot 17		<u>/</u>	
Plot 18		<u>/</u>	
Plot 19		<u>/</u>	
Plot 20		<u>/</u>	
Plot 21		<u>/</u>	
Plot 22		<u>/</u>	
Plot 23		<u>/</u>	

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(Field Personnel)

(Project Manager)



Plot No.	Total No. of Cavity Trees	Plot Center UTM (Zone: _____)	Comments
Plot 24		/	
Plot 25		/	
Plot 26		/	
Plot 27		/	
Plot 28		/	
Plot 29		/	
Plot 30		/	
Plot 31			
Plot 32		/	
Plot 33		/	
Plot 34		/	
Plot 35		/	

TOTAL No. Cavity Trees: 0

Density Calculation: (use formula provided<sup>2</sup>)

Trees/ha

<sup>1</sup>No. of Plots: Sites ≤ 10 ha: 10 plots (minimum); each extra ha: 1 plot (up to max 35 plots). Plots = 0.05 ha or 12.6m radius. Select plots randomly.

<sup>2</sup>Total Cavity Tree Density =  $\frac{\text{total \# cavity trees}}{(\# \text{ plots} \times 0.05 \text{ ha})}$

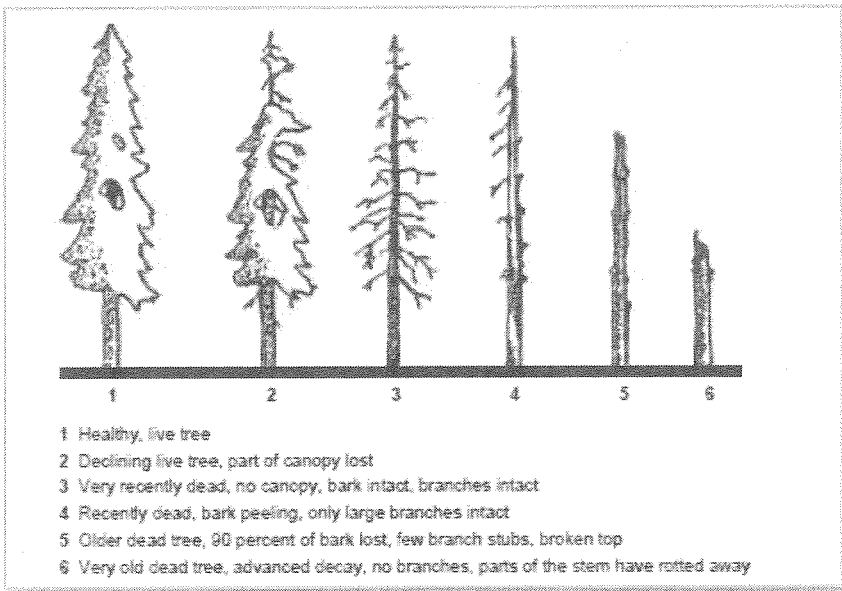


Figure 1: Decay classification system for cavity trees (Watt and Caceres, 1999)

NOTE: Decay classifications 4-6 should not be tallied in plots.



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## Bat Maternity Roost - Cavity Tree Density Plots Data Form

(FOR USE IN FOD & FOM COMMUNITIES ONLY)

Project Number: 160960709

Project Name: Cedar Point

<u>20/03/13</u>	<u>14:30</u>	<u>15:30</u>	<u>J. Ball</u>
DATE	TIME (start)	TIME (end)	Field Personnel
<u>-3</u>	<u>3</u>	<u>100%</u>	<u>Light snow</u>   <u>Light snow</u>
TEMP (°C)	WIND	CLOUD	PPT   PPT (in last 24 hrs)

Weather Conditions:

Feature #: 34 Feature Size (ha): 8.4 No. of Plots to Survey<sup>1</sup>: 10

Plot No.	Total No. of Cavity Trees	Plot Center UTM (Zone: <u>17T</u> )	Comments
Plot 01	<u>0</u>	<u>0415104 / 4774553</u>	
Plot 02	<u>0</u>	<u>0415093 / 4774571</u>	
Plot 03	<u>0</u>	<u>0415098 / 4774608</u>	
Plot 04	<u>0</u>	<u>0415108 / 4774625</u>	
Plot 05	<u>1</u>	<u>0415118 / 4774652</u>	
Plot 06	<u>0</u>	<u>0415106 / 4774701</u>	
Plot 07	<u>1</u>	<u>0415095 / 4774705</u>	<u>is large oak tree</u>
Plot 08	<u>0</u>	<u>0415079 / 4774676</u>	
Plot 09	<u>0</u>	<u>0415095 / 4774617</u>	
Plot 10	<u>0</u>	<u>0415093 / 4774593</u>	
Plot 11		<u>/</u>	
Plot 12		<u>/</u>	
Plot 13		<u>/</u>	
Plot 14		<u>/</u>	
Plot 15		<u>/</u>	
Plot 16		<u>/</u>	
Plot 17		<u>/</u>	
Plot 18		<u>/</u>	
Plot 19		<u>/</u>	
Plot 20		<u>/</u>	
Plot 21		<u>/</u>	
Plot 22		<u>/</u>	
Plot 23		<u>/</u>	

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(Field Personnel)

(Project Manager)



Plot No.	Total No. of Cavity Trees	Plot Center UTM (Zone: _____)	Comments
Plot 24		/	
Plot 25		/	
Plot 26		/	
Plot 27		/	
Plot 28		/	
Plot 29		/	
Plot 30		/	
Plot 31			
Plot 32		/	
Plot 33		/	
Plot 34		/	
Plot 35		/	

TOTAL No. Cavity Trees: 2

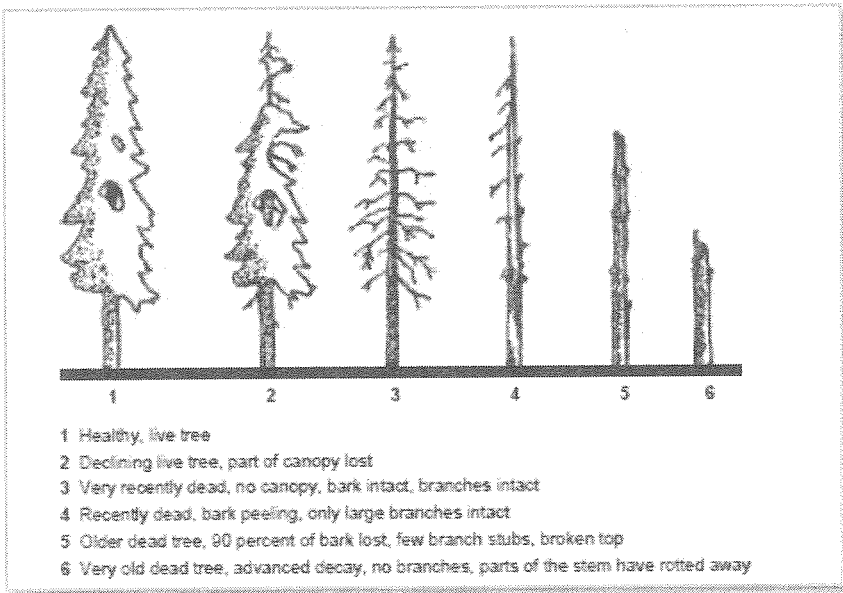
Density Calculation: (use formula provided<sup>2</sup>)

4

Trees/ha

<sup>1</sup>No. of Plots: Sites ≤ 10 ha; 10 plots (minimum); each extra ha: 1 plot (up to max 35 plots). Plots = 0.05 ha or 12.6m radius. Select plots randomly.

<sup>2</sup>Total Cavity Tree Density =  $\frac{\text{total \# cavity trees}}{(\# \text{ plots} \times 0.05 \text{ ha})}$



Only sampled a very small fraction of entire woodlot. It was challenging to fit 10 non-overlapping plots in this small section. There were several 750cm dbh trees in this section.

Figure 1: Decay classification system for cavity trees (Watt and Caceres, 1999)  
 NOTE: Decay classifications 4-6 should not be tallied in plots.



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## Bat Maternity Roost - Cavity Tree Density Plots Data Form

(FOR USE IN FOD & FOM COMMUNITIES ONLY)

Project Number: 160960709

Project Name: Cedar Point

<u>21/03/13</u>	<u>8:00</u>	<u>8:30</u>	<u>Katherine S</u>
DATE	TIME (start)	TIME (end)	Field Personnel
<u>-5</u>	<u>2-3</u>	<u>100%</u>	<u>Light Snow</u>
TEMP (°C)	WIND	CLOUD	PPT (in last 24 hrs)

Weather Conditions:

Feature #: 37 Feature Size (ha): 5.3 No. of Plots to Survey: 10

Plot No.	Total No. of Cavity Trees	Plot Center UTM (Zone: <u>17T</u> )	Comments
Plot 01	0	0416139 / 4774233	*Accessible area of woodland includes large drain, path, and logged area. Could not fit 10 plots. The rest of the woodland is young, with very few trees $\geq 25$ cm dbh
Plot 02	0	0416147 / 4774222	
Plot 03	0	0416136 / 4774205	
Plot 04	0	0416137 / 4774196	
Plot 05		/	
Plot 06		/	
Plot 07		/	
Plot 08		/	
Plot 09		/	
Plot 10		/	
Plot 11		/	
Plot 12		/	
Plot 13		/	
Plot 14		/	
Plot 15		/	
Plot 16		/	
Plot 17		/	
Plot 18		/	
Plot 19		/	
Plot 20		/	
Plot 21		/	
Plot 22		/	
Plot 23		/	

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(Field Personnel)

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(Project Manager)

REV: 2012-02-12



Plot No.	Total No. of Cavity Trees	Plot Center UTM (Zone: _____)	Comments
Plot 24		/	
Plot 25		/	
Plot 26		/	
Plot 27		/	
Plot 28		/	
Plot 29		/	
Plot 30		/	
Plot 31			
Plot 32		/	
Plot 33		/	
Plot 34		/	
Plot 35		/	

TOTAL No. of Cavity Trees: 0

Density Calculation: (use formula provided<sup>2</sup>)

Trees/ha

<sup>1</sup>No. of Plots: Sites ≤ 10 ha; 10 plots (minimum); each extra ha: 1 plot (up to max 35 plots). Plots = 0.05 ha or 12.6m radius. Select plots randomly.

$$^2\text{Total Cavity Tree Density} = \frac{\text{total \# cavity trees}}{(\# \text{ plots} \times 0.05 \text{ ha})}$$

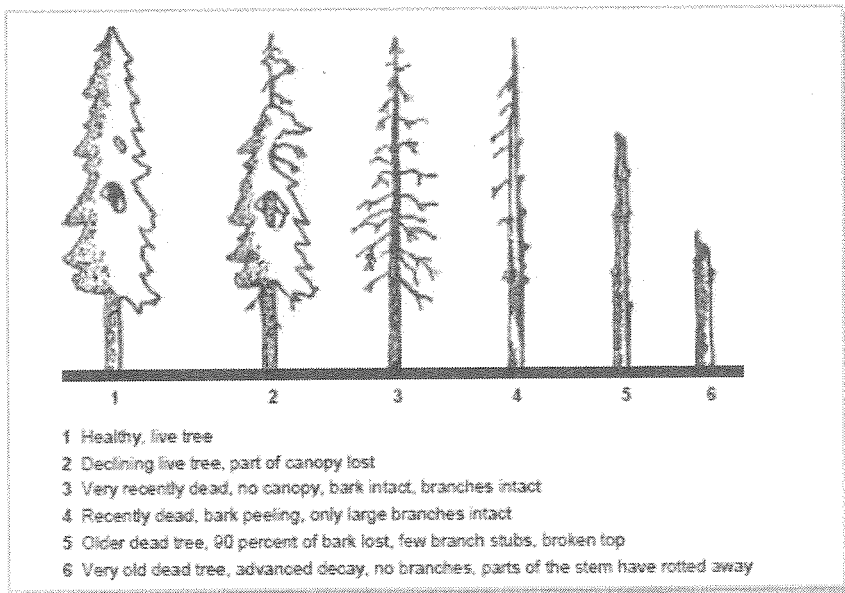


Figure 1: Decay classification system for cavity trees (Watt and Caceres, 1999)  
 NOTE: Decay classifications 4-6 should not be tallied in plots.



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## Bat Maternity Roost - Cavity Tree Density Plots Data Form

(FOR USE IN FOD & FOM COMMUNITIES ONLY)

Project Number: 160960709

Project Name: Cedar Point

<u>March 20/13</u>	<u>11:15</u>	<u>13:15</u>	<u>J. Ball</u>	
DATE	TIME (start)	TIME (end)	Field Personnel	
<u>-5</u>	<u>2</u>	<u>60%</u>	<u>None</u>	<u>Light Snow</u>
TEMP (°C)	WIND	CLOUD	PPT	PPT (in last 24 hrs)

Weather Conditions:

Feature #: 45 Feature Size (ha): 70 No. of Plots to Survey<sup>1</sup>: 35

Plot No.	Total No. of Cavity Trees	Plot Center UTM (Zone: <u>17T</u> )	Comments
Plot 01	0	0413015 14771327	
Plot 02	0	0413090 14771322	
Plot 03	0	0413066 14771352	
Plot 04	0	0413056 14771390	
Plot 05	0	043057 14771448	
Plot 06	0	0413089 14771478	
Plot 07	0	0413142 14771451	
Plot 08	0	0413196 14771429	
Plot 09	0	0413227 14771412	
Plot 10	0	0413271 14771429	
Plot 11	0	0413303 14771415	
Plot 12	0	0413357 14771386	
Plot 13	0	0413404 14771395	
Plot 14	0	0413457 14771400	
Plot 15	0	0413492 14771424	
Plot 16	0	0413563 14771430	
Plot 17	0	0413556 14771470	
Plot 18	0	0413503 14771483	
Plot 19	0	0413441 14771456	
Plot 20	0	0413395 14771445	
Plot 21	0	0413358 14771468	
Plot 22	0	0413337 14771497	
Plot 23	0	0413318 14771530	

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(Project Manager)



Plot No.	Total No. of Cavity Trees	Plot Center UTM (Zone: <u>17T</u> )	Comments
Plot 24	0	0413306 / 4771595	
Plot 25	0	0413268 / 4771619	
Plot 26	0	0413224 / 4771645	
Plot 27	0	0413172 / 4771649	
Plot 28	0	0413096 / 4771635	
Plot 29	0	0413085 / 4771595	
Plot 30	0	0413086 / 4771556	
Plot 31	0	0413027 / 4771649	
Plot 32	0	0413060 / 4771531	
Plot 33	0	0413022 / 4771553	
Plot 34	0	0413016 / 4771586	
Plot 35	0	0412996 / 4771625	

TOTAL No. of Cavity Trees: 0

Density Calculation: (use formula provided<sup>2</sup>)

Trees/ha

<sup>1</sup>No. of Plots: Sites ≤ 10 ha: 10 plots (minimum); each extra ha: 1 plot (up to max 35 plots). Plots = 0.05 ha or 12.6m radius. Select plots randomly.

$$^2\text{Total Cavity Tree Density} = \frac{\text{total \# cavity trees}}{(\# \text{ plots} \times 0.05 \text{ ha})}$$

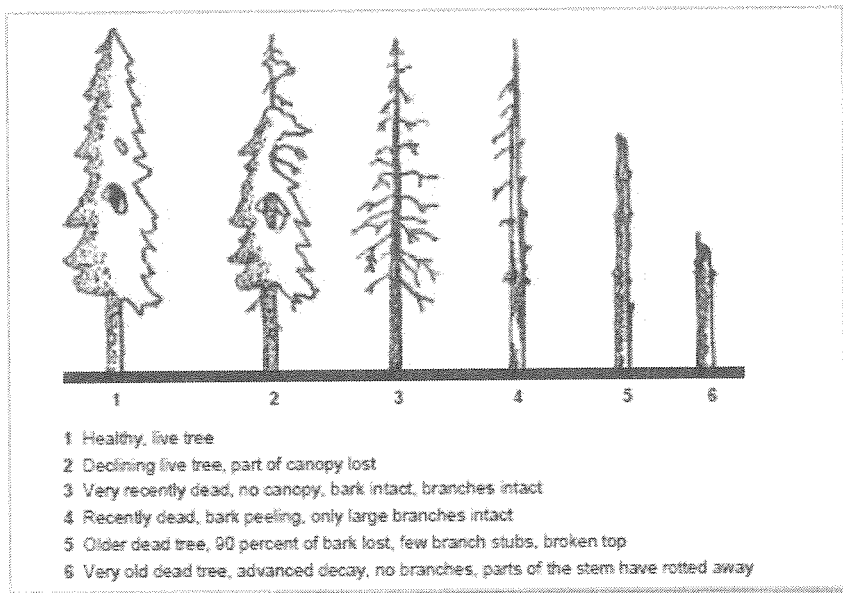


Figure 1: Decay classification system for cavity trees (Watt and Caceres, 1999)  
NOTE: Decay classifications 4-6 should not be tallied in plots.



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## Bat Maternity Roost - Cavity Tree Density Plots Data Form

(FOR USE IN FOD & FOM COMMUNITIES ONLY)

**Stantec**

Project Number: 160960709

Project Name: Cedar Point

<u>20/03/13</u>	<u>9:15</u>	<u>11:00</u>	<u>J. Ball</u>	
DATE	TIME (start)	TIME (end)	Field Personnel	
<u>-5</u>	<u>2</u>	<u>60%</u>	<u>-</u>	<u>Light Snow</u>
TEMP (°C)	WIND	CLOUD	PPT	PPT (in last 24 hrs)

Weather Conditions:

Feature #: 48 Feature Size (ha): 31 No. of Plots to Survey<sup>1</sup>: 31

Plot No.	Total No. of Cavity Trees	Plot Center UTM (Zone: <u>17T</u> )	Comments
Plot 01	0	0412074 / 4771742	
Plot 02	0	0412090 / 4771682	
Plot 03	0	0412086 / 4771601	
Plot 04	0	0412099 / 4771559	
Plot 05	0	0412140 / 4771497	
Plot 06	0	0412235 / 4771466	
Plot 07	0	0412284 / 4771497	
Plot 08	0	0412320 / 4771473	
Plot 09	0	0412341 / 4771426	
Plot 10	0	0412369 / 4771372	
Plot 11	0	0412464 / 4771355	
Plot 12	0	0412516 / 4771384	
Plot 13	0	0412530 / 4771437	
Plot 14	0	0412572 / 4771444	
Plot 15	0	0412611 / 4771431	
Plot 16	0	0412658 / 4771423	
Plot 17	0	0412680 / 4771401	
Plot 18	0	0412673 / 4771382	
Plot 19	0	0412636 / 4771376	
Plot 20	0	0412615 / 4771378	
Plot 21	0	0412571 / 4771341	
Plot 22	0	0412551 / 4771333	
Plot 23	0	0412501 / 4771358	

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(Field Personnel)

(Project Manager)



Plot No.	Total No. of Cavity Trees	Plot Center UTM (Zone: <u>17T</u> )	Comments
Plot 24	0	0412446 / 4771368	
Plot 25	0	0412391 / 4771394	
Plot 26	0	0412369 / 4771406	
Plot 27	0	0412353 / 4771413	
Plot 28	0	0412397 / 4771432	
Plot 29	1	0412450 / 4771429	
Plot 30	1	0412508 / 4771420	with twigs inside
Plot 31	0	0412570 / 4771410	
Plot 32		/	
Plot 33		/	
Plot 34		/	
Plot 35		/	

TOTAL No. Cavity Trees: 2      Density Calculation: (use formula provided<sup>2</sup>) 1.3      Trees/ha

<sup>1</sup>No. of Plots: Sites ≤ 10 ha: 10 plots (minimum); each extra ha: 1 plot (up to max 35 plots). Plots = 0.05 ha or 12.6m radius. Select plots randomly.

<sup>2</sup>Total Cavity Tree Density =  $\frac{\text{total \# cavity trees}}{(\# \text{ plots} \times 0.05 \text{ ha})}$

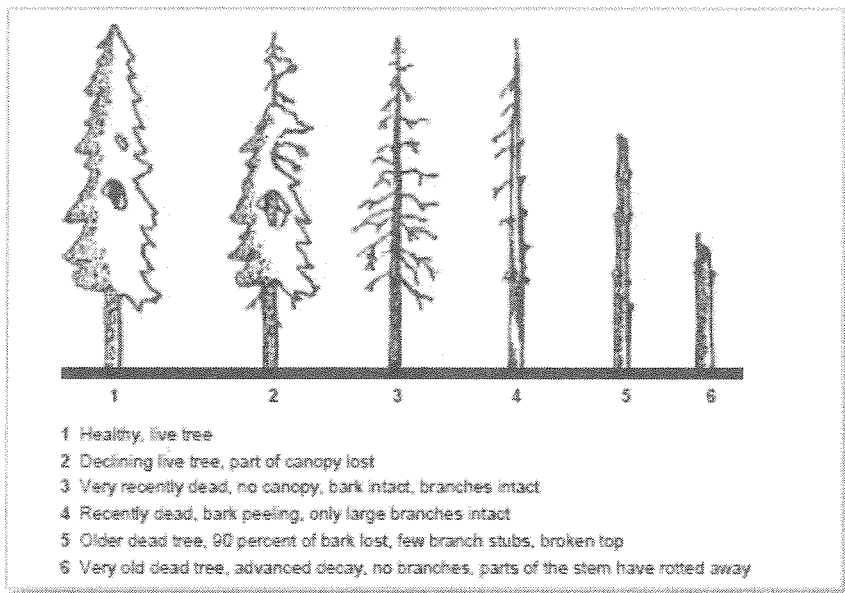


Figure 1: Decay classification system for cavity trees (Watt and Caceres, 1999)

NOTE: Decay classifications 4-6 should not be tallied in plots.



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**Bat Maternity Roost -  
 Cavity Tree Density Plots  
 Data Form**

(FOR USE IN FOD & FOM COMMUNITIES ONLY)

Project Number: 160960709

Project Name: Cedar Point

<u>19/03/13</u>	<u>13:35</u>	<u>15:35</u>	<u>Katherine S</u>
DATE	TIME (start)	TIME (end)	Field Personnel
<u>-4</u>	<u>4</u>	<u>100%</u>	<u>Light Snow</u>
TEMP (°C)	WIND	CLOUD	PPT (in last 24 hrs)

Weather Conditions:

Feature #: 55 Feature Size (ha): 79.3 No. of Plots to Survey: 35

Plot No.	Total No. of Cavity Trees	Plot Center UTM (Zone: <u>17T</u> )	Comments
Plot 01	<u>1</u>	<u>0408787 / 4768650</u>	
Plot 02	<u>0</u>	<u>0408758 / 4768661</u>	
Plot 03	<u>0</u>	<u>0408695 / 4768666</u>	
Plot 04	<u>1</u>	<u>0408634 / 4768674</u>	
Plot 05	<u>0</u>	<u>0408591 / 4768656</u>	
Plot 06	<u>0</u>	<u>0408541 / 4768677</u>	
Plot 07	<u>0</u>	<u>0408484 / 4768629</u>	
Plot 08	<u>0</u>	<u>0408449 / 4768682</u>	
Plot 09	<u>0</u>	<u>0408402 / 4768651</u>	
Plot 10	<u>0</u>	<u>0468363 / 4768594</u>	
Plot 11	<u>0</u>	<u>0408325 / 4768641</u>	
Plot 12	<u>0</u>	<u>0408228 / 4768896</u>	
Plot 13	<u>1</u>	<u>0408270 / 4768944</u>	
Plot 14	<u>0</u>	<u>0408238 / 4768990</u>	
Plot 15	<u>0</u>	<u>0408235 / 4769023</u>	
Plot 16	<u>0</u>	<u>0408170 / 4769069</u>	
Plot 17	<u>0</u>	<u>0408135 / 4769111</u>	
Plot 18	<u>0</u>	<u>0408106 / 4769175</u>	
Plot 19	<u>1</u>	<u>0408065 / 4769222</u>	
Plot 20	<u>2</u>	<u>0408043 / 4769291</u>	
Plot 21	<u>1</u>	<u>0408062 / 4769341</u>	
Plot 22	<u>0</u>	<u>0408034 / 4769368</u>	
Plot 23	<u>0</u>	<u>0407956 / 4769410</u>	

RTHA  
 RWBL  
 COGR

White Tailed  
 Deer (3)

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 (Project Manager)



Plot No.	Total No. of Cavity Trees	Plot Center UTM (Zone: 17 T)	Comments
Plot 24	1	0407965 / 4769445	
Plot 25	0	0407946 / 4769521	
Plot 26	0	0407968 / 4769575	
Plot 27	1	0408030 / 4769680	
Plot 28	0	0408022 / 4769730	
Plot 29	0	0408029 / 4769774	
Plot 30	0	0408049 / 4769801	
Plot 31	0	0408097 / 4769833	
Plot 32	0	0408153 / 4769823	
Plot 33	0	0408167 / 4769802	
Plot 34	0	0408141 / 4769720	
Plot 35	1	0408099 / 4769666	

TOTAL No. Cavity Trees: 9

Density Calculation: (use formula provided) 5.1

Trees/ha

<sup>1</sup>No. of Plots: Sites ≤ 10 ha; 10 plots (minimum); each extra ha: 1 plot (up to max 35 plots). Plots = 0.05 ha or 12.6m radius. Select plots randomly.

<sup>2</sup>Total Cavity Tree Density =  $\frac{\text{total \# cavity trees}}{(\# \text{ plots} \times 0.05 \text{ ha})}$

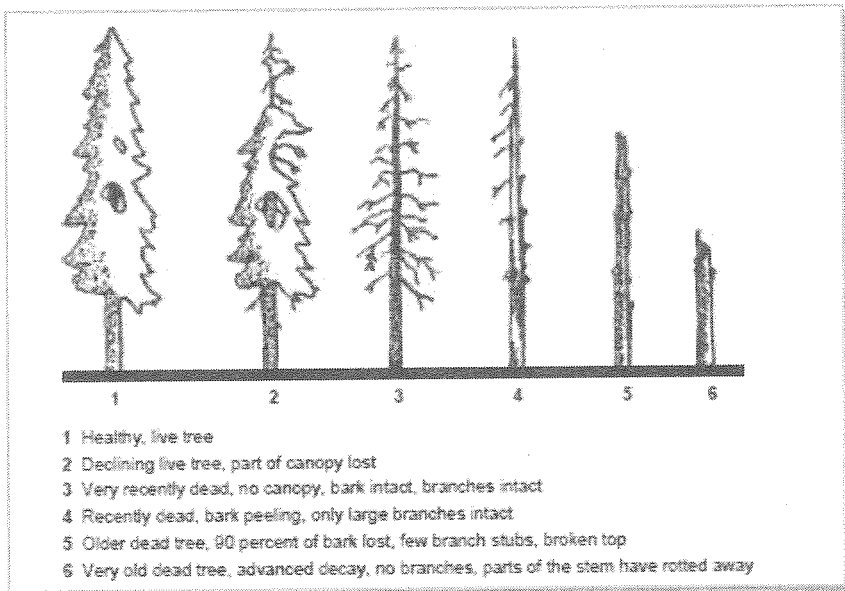


Figure 1: Decay classification system for cavity trees (Watt and Caceres, 1999)  
NOTE: Decay classifications 4-6 should not be tallied in plots.



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## Bat Maternity Roost - Cavity Tree Density Plots Data Form

(FOR USE IN FOD & FOM COMMUNITIES ONLY)

**Stantec**

Project Number: 160960709

Project Name: Cedar Point

<u>20/03/13</u>	<u>10:55</u>	<u>11:25</u>	<u>Katherine S.</u>
DATE	TIME (start)	TIME (end)	Field Personnel
<u>-4</u>	<u>3</u>	<u>45%</u>	<u>Light Snow</u>
TEMP (°C)	WIND	CLOUD	PPT (in last 24 hrs)

Weather Conditions:

Feature #: 58 Feature Size (ha): 14.1 No. of Plots to Survey: 14

Plot No.	Total No. of Cavity Trees	Plot Center UTM (Zone: <u>17T</u> )	Comments
Plot 01	<u>1</u>	<u>0410554 / 4765272</u>	<u>* Note: Plots have to be very close together b/c of size of accessible property. Plots do not overlap; however, GPS accuracy may make it look as if they do</u>
Plot 02	<u>0</u>	<u>0410547 / 4765267</u>	
Plot 03	<u>0</u>	<u>0410546 / 4765274</u>	
Plot 04	<u>1</u>	<u>0410533 / 4765289</u>	
Plot 05	<u>1</u>	<u>0410541 / 4765321</u>	
Plot 06	<u>0</u>	<u>0410531 / 4765346</u>	
Plot 07	<u>0</u>	<u>0410505 / 4765363</u>	
Plot 08	<u>0</u>	<u>0410498 / 4765363</u>	
Plot 09	<u>0</u>	<u>0410496 / 4765357</u>	
Plot 10	<u>0</u>	<u>0410480 / 4765337</u>	
Plot 11	<u>0</u>	<u>0410476 / 4765319</u>	
Plot 12	<u>0</u>	<u>0410473 / 4765297</u>	
Plot 13	<u>0</u>	<u>0410463 / 4765272</u>	
Plot 14	<u>0</u>	<u>0410495 / 4765242</u>	
Plot 15		<u>/</u>	
Plot 16		<u>/</u>	
Plot 17		<u>/</u>	
Plot 18		<u>/</u>	
Plot 19		<u>/</u>	
Plot 20		<u>/</u>	
Plot 21		<u>/</u>	
Plot 22		<u>/</u>	
Plot 23		<u>/</u>	

Signature: \_\_\_\_\_  
 (Field Personnel)

Signature: \_\_\_\_\_  
 (Project Manager)



Plot No.	Total No. of Cavity Trees	Plot Center UTM (Zone: _____)	Comments
Plot 24		/	
Plot 25		/	
Plot 26		/	
Plot 27		/	
Plot 28		/	
Plot 29		/	
Plot 30		/	
Plot 31			
Plot 32		/	
Plot 33		/	
Plot 34		/	
Plot 35		/	

TOTAL No. Cavity Trees: 3

Density Calculation: (use formula provided<sup>2</sup>)

4.3

Trees/ha

<sup>1</sup>No. of Plots: Sites ≤ 10 ha; 10 plots (minimum); each extra ha: 1 plot (up to max 35 plots). Plots = 0.05 ha or 12.6m radius. Select plots randomly.

<sup>2</sup>Total Cavity Tree Density =  $\frac{\text{total \# cavity trees}}{(\# \text{ plots} \times 0.05 \text{ ha})}$

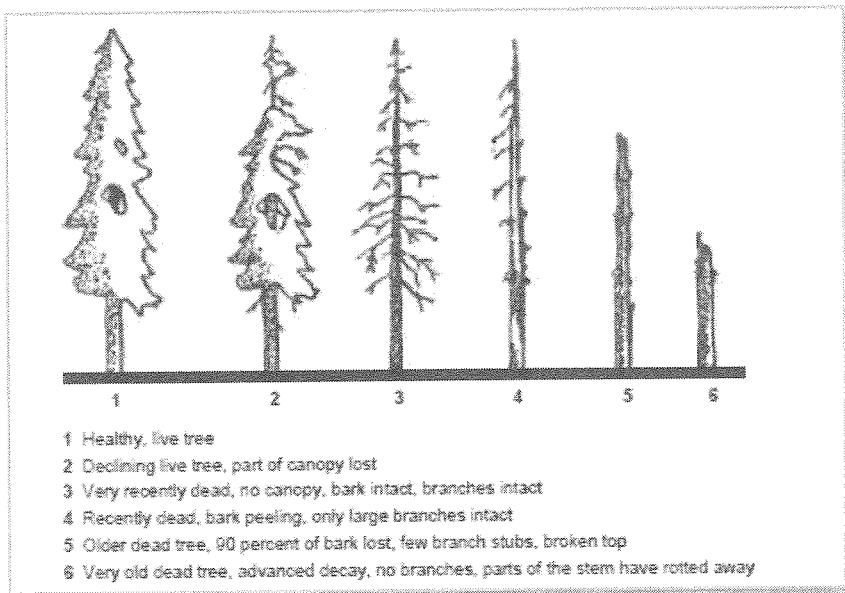


Figure 1: Decay classification system for cavity trees (Watt and Caceres, 1999)  
NOTE: Decay classifications 4-6 should not be tallied in plots.

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(Field Personnel)

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(Project Manager)

REV: 2013-03-13



Stantec Consulting Ltd.  
 1 - 70 Southgate Drive  
 Guelph, ON  
 Canada N1G 4P5  
 Tel: (519) 836-6050  
 Fax: (519) 836-2493

## Bat Maternity Roost - Cavity Tree Density Plots Data Form

(FOR USE IN FOD & FOM COMMUNITIES ONLY)

**Stantec**

Project Number:

160960709

Project Name:

Cedar Point

20/03/13

11:30

12:05

Katleine S

DATE

TIME (start)

TIME (end)

Field Personnel

Weather Conditions:

-4

3

45% 0

—

Light Snow

TEMP (°C)

WIND

CLOUD

PPT

PPT (in last 24 hrs)

Feature #:

59

Feature Size (ha):

13.3

No. of Plots to Survey:

13

Plot No.	Total No. of Cavity Trees	Plot Center UTM (Zone: 17T)	Comments
Plot 01	0	0410357 / 4765232	* Same note as Woodland
Plot 02	0	0410354 / 4765231	58
Plot 03	0	0410353 / 4765182	
Plot 04	1	0410344 / 4765146	
Plot 05	1	0410342 / 4765108	
Plot 06	2	0410317 / 4765100	
Plot 07	0	0410295 / 4765114	
Plot 08	0	0410311 / 4765146	
Plot 09	0	0410299 / 4765154	
Plot 10	1	0410271 / 4765189	
Plot 11	0	0410264 / 4765210	
Plot 12	0	0410272 / 4765244	
Plot 13	0	0410305 / 4765252	
Plot 14		/	
Plot 15		/	
Plot 16		/	
Plot 17		/	
Plot 18		/	
Plot 19		/	
Plot 20		/	
Plot 21		/	
Plot 22		/	
Plot 23		/	

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(Field Personnel)

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Signature: \_\_\_\_\_

(Project Manager)



Plot No.	Total No. of Cavity Trees	Plot Center UTM (Zone: _____)	Comments
Plot 24		/	
Plot 25		/	
Plot 26		/	
Plot 27		/	
Plot 28		/	
Plot 29		/	
Plot 30		/	
Plot 31		/	
Plot 32		/	
Plot 33		/	
Plot 34		/	
Plot 35		/	

TOTAL No. Cavity Trees: 5

Density Calculation: (use formula provided<sup>2</sup>)

7.7

Trees/ha

<sup>1</sup>No. of Plots: Sites ≤ 10 ha: 10 plots (minimum); each extra ha: 1 plot (up to max 35 plots).  
Plots = 0.05 ha or 12.6m radius.  
Select plots randomly.

$$^2\text{Total Cavity Tree Density} = \frac{\text{total \# cavity trees}}{(\# \text{ plots} \times 0.05 \text{ ha})}$$

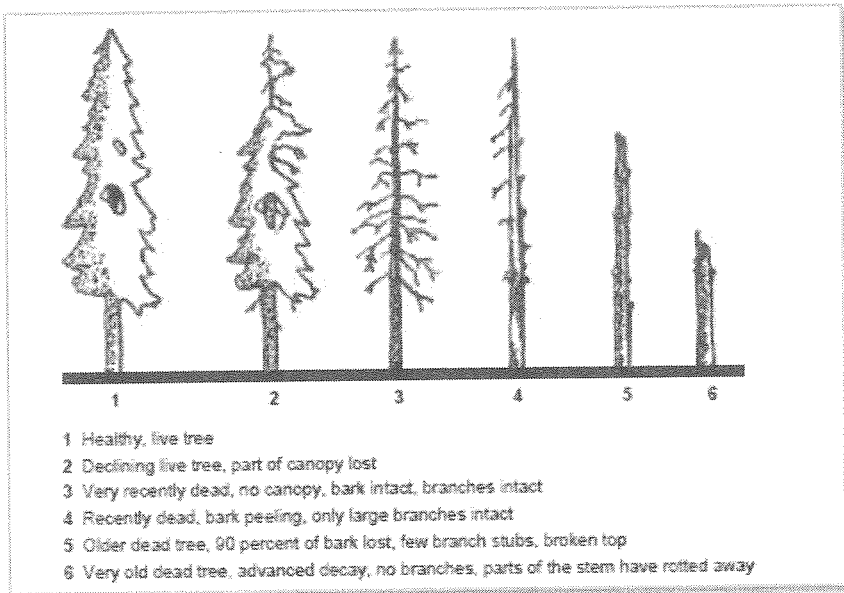


Figure 1: Decay classification system for cavity trees (Watt and Caceres, 1999)  
*NOTE: Decay classifications 4-6 should not be tallied in plots.*



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 1 - 70 Southgate Drive  
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 Fax: (519) 836-2493

## Bat Maternity Roost - Cavity Tree Density Plots Data Form

(FOR USE IN FOD & FOM COMMUNITIES ONLY)

**Stantec**

Project Number: 160960709

Project Name: Cedar Point

<u>20/03/13</u>	<u>8:55</u>	<u>10:45</u>	<u>Katherine S</u>	
DATE	TIME (start)	TIME (end)	Field Personnel	
<u>-4</u>	<u>1</u>	<u>40%</u>	<u>—</u>	<u>Light Snow</u>
TEMP (°C)	WIND	CLOUD	PPT	PPT (in last 24 hrs)

Weather Conditions:

Feature #: 62 Feature Size (ha): 68.5 No. of Plots to Survey: 35

Plot No.	Total No. of Cavity Trees	Plot Center UTM (Zone: <u>17T</u> )	Comments
Plot 01	<u>0</u>	<u>0408686 / 4765508</u>	<u>*Note: collector line passes along snowmobile trail (~7m wide trail)</u>
Plot 02	<u>0</u>	<u>0408639 / 4765554</u>	
Plot 03	<u>0</u>	<u>0408592 / 4765585</u>	
Plot 04	<u>0</u>	<u>0408489 / 4765592</u>	
Plot 05	<u>1</u>	<u>0408401 / 4765534</u>	
Plot 06	<u>0</u>	<u>0408447 / 4765651</u>	
Plot 07	<u>0</u>	<u>0408401 / 4765653</u>	
Plot 08	<u>0</u>	<u>0408406 / 4765758</u>	
Plot 09	<u>0</u>	<u>0408373 / 4765791</u>	
Plot 10	<u>0</u>	<u>0408238 / 4765778</u>	
Plot 11	<u>1</u>	<u>0408182 / 4765761</u>	
Plot 12	<u>0</u>	<u>0408131 / 4765750</u>	
Plot 13	<u>0</u>	<u>0407972 / 4765792</u>	
Plot 14	<u>0</u>	<u>0407867 / 4765727</u>	
Plot 15	<u>0</u>	<u>0407816 / 4765742</u>	
Plot 16	<u>0</u>	<u>0407840 / 4765793</u>	
Plot 17	<u>0</u>	<u>0407857 / 4765868</u>	
Plot 18	<u>0</u>	<u>0407847 / 4765930</u>	
Plot 19	<u>0</u>	<u>0407856 / 4765959</u>	
Plot 20	<u>0</u>	<u>0407820 / 4765948</u>	
Plot 21	<u>0</u>	<u>0407772 / 4765898</u>	
Plot 22	<u>0</u>	<u>0407742 / 4765811</u>	
Plot 23	<u>0</u>	<u>0408224 / 4766038</u>	

RBWJ

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(Field Personnel)

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Signature: \_\_\_\_\_

(Project Manager)



Plot No.	Total No. of Cavity Trees	Plot Center UTM (Zone: 17T)	Comments
Plot 24	0	0408231 / 4766077	
Plot 25	0	0408247 / 4766141	
Plot 26	1	0408248 / 4766172	
Plot 27	0	0408279 / 4766119	
Plot 28	0	0408284 / 4766076	
Plot 29	0	0408406 / 4765799	
Plot 30	0	0408508 / 4765784	
Plot 31	0	0408547 / 4765729	
Plot 32	2	0408616 / 4765691	
Plot 33	0	0408662 / 4765672	
Plot 34	0	0408678 / 4765637	
Plot 35	2	0408683 / 4765592	

TOTAL No. Cavity Trees: 8

Density Calculation:  
(use formula provided<sup>2</sup>)

4.5 Trees/ha

<sup>1</sup>No. of Plots: Sites ≤ 10 ha: 10 plots (minimum); each extra ha: 1 plot (up to max 35 plots).  
Plots = 0.05 ha or 12.6m radius.  
Select plots randomly.

$$^2\text{Total Cavity Tree Density} = \frac{\text{total \# cavity trees}}{(\# \text{ plots} \times 0.05 \text{ ha})}$$

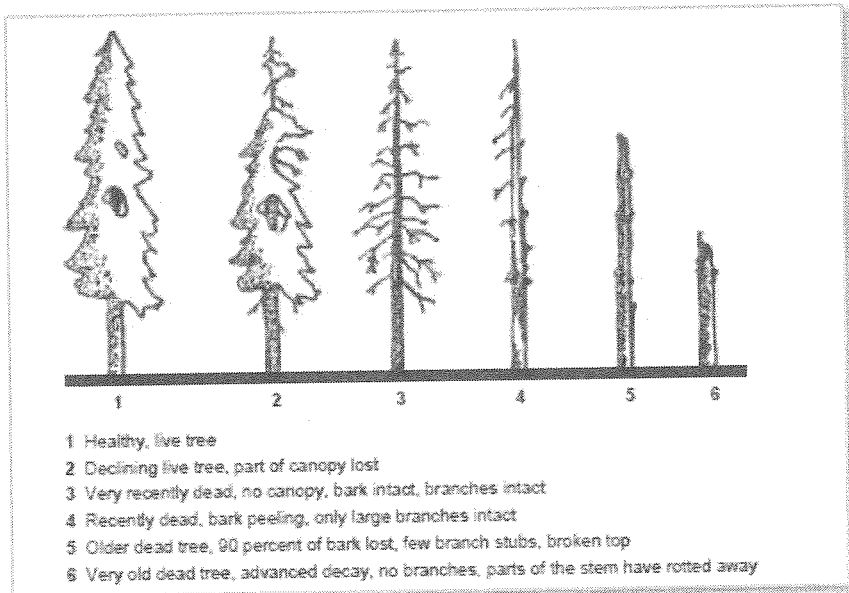


Figure 1: Decay classification system for cavity trees (Watt and Caceres, 1999)  
NOTE: Decay classifications 4-6 should not be tallied in plots.