

**REPORT ON FOUR AVIAN SPECIES AT  
RISK AND OTHER BREEDING BIRD  
SPECIES WITHIN FRUITLAND-WINONA  
SECONDARY PLAN AREA, SCUBE  
CENTRAL, SCUBE EAST 'A' AND SCUBE  
EAST 'B' PARCELS**

FINAL REPORT



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Prepared for:

**The City of Hamilton**

Planning and Economic Development

Department

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November 28, 2012

**REPORT ON FOUR AVIAN SPECIES AT RISK AND OTHER BREEDING BIRD SPECIES  
WITHIN FRUITLAND-WINONA SECONDARY PLAN AREA, SCUBE CENTRAL, SCUBE  
EAST 'A' AND SCUBE EAST 'B' PARCELS**

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Introduction

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## 1.0 Introduction

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Stantec Consulting Ltd. (Stantec) was retained by the City of Hamilton in 2012 to conduct avian Species at Risk (SAR) surveys and Breeding Bird Surveys within the Fruitland-Winona Secondary Plan Area (SPA) and the Scube Central, Scube East 'A' and Scube East 'B' parcels (collectively referred to hereafter as the Scube Parcels). The SPA and Scube Parcels are located in the east portion of the City of Hamilton and are generally bounded to the north by the Queen Elizabeth Way, to the west by Fruitland Road, to the south by Highway 8 and to the east by Fifty Road. A portion of the Scube East Parcel B extends easterly from Fifty Road approximately 1 km, so as to contain the channel of 50 Creek and additional lands east of the channel. The location of these parcels is shown in **Figure 1**<sup>1</sup>.

SAR surveys were conducted for Bobolink (*Dolichonyx oryzivorus*), Eastern Meadowlark (*Sturnella magna*), Barn Swallow (*Hirundo rustica*) and Chimney Swift (*Chaetura pelagica*) as these species were considered to potentially occur and breed in the SPA and Scube Parcels [Ministry of Natural Resources (MNR), Karine Beriault, Guelph District SAR Biologist]. Each of these provincially threatened species typically nest and forage in human-altered habitats throughout much of eastern North America, including areas with a mix of rural and urban land use such as occur within the SPA and Scube Parcels. The Bobolink, Eastern Meadowlark and Barn Swallow typically nest and forage in agricultural habitats while Chimney Swift nests and forages over urban areas.

The purpose of these surveys was to determine whether particular avian SAR occur within the SPA and Scube Parcels and, to identify locations where avian SAR occur. Based on our findings, we were to make recommendations regarding areas, if any, which should be preserved for these avian SAR. General Breeding Bird Surveys were also conducted to identify breeding bird species within the SPA and Scube Parcels, whether SAR or non-SAR species. Findings of these surveys are provided to the City of Hamilton and Hamilton Conservation Authority to guide land use planning and address requirements of the Endangered Species Act (ESA, 2007) within the Fruitland-Winona SPA and Scube Parcels.

Landowners and developers should also consider findings of this report to ensure proposed developments satisfy requirements of the ESA, 2007. It should be noted that the information is based on 2012 field work at the locations where property access was granted. Species distribution and habitat conditions will vary subject to land uses (e.g. agricultural practices), successional changes to natural environments, and bird species dynamics. Future decisions pertaining to the Endangered Species Act and/or Regulations must be made with the best

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<sup>1</sup> All figures referenced herein are provided in Appendix A

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information available at the time the decision is being made. Work performed was based on the Scope of Work provided by the City of Hamilton on April 3rd, 2012 and June 25th, 2012.

This report includes:

- Findings of avian SAR Surveys;
- Maps of avian SAR Locations;
- An evaluation of the habitat types in the study area in terms of their potential use by the following SAR: Bobolink, Eastern Meadowlark, Barn Swallow, and Chimney Swift;
- Recommendations regarding any potential areas for preservation of avian SAR habitat;
- Findings of Breeding Bird Surveys; and
- Field data sheets.

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Current Land Use  
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## **2.0 Current Land Use**

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The SPA and Scube Parcels have historically been rural areas where farming was the dominant land use. In the SPA, wheat is still farmed to the west of Jones Road and remnant fruit trees and vineyards are occasionally present throughout the remainder of the SPA. In the Scube Parcels, farming still occurs on the east side of Lewis Road.

An examination of aerial imagery reveals that buildings within the SPA and Scube Central Parcel are common and highly concentrated along roadways; fallow land and limited active agricultural land lies in the interiors of parcels. The majority of buildings present are residences, but business and municipal buildings also occur. In the Scube East 'A' and Scube East 'B' parcels, fallow land occupies almost all of the parcels and buildings are only rarely present along roadways.

In addition to widespread fallow land, the SPA and Scube Parcels include small woodlands, shrub thickets and wetlands. All forms of natural habitat within the SPA and Scube Parcels are small in area, fragmented and in pioneering or early stages of vegetation succession.



### **3.0 Methods**

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SAR Surveys for Chimney Swift, Barn Swallow, Eastern Meadowlark and Bobolink were carried out in the SPA and Scube Parcels using protocols recommended by the MNR and Bird Studies Canada when these had been developed; and, protocols of the Ontario Breeding Bird Atlas (OBBA) (Cadman *et al.*, 2007) when specialized protocols do not exist.

Surveys for non-SAR birds were carried out in the SPA and Scube Parcels using protocols of the OBBA.

Survey methods for both SAR and non-SAR birds are described below.

#### **3.1 CHIMNEY SWIFT**

Chimney Swift is known to depend almost entirely on chimneys for nesting and roosting within southern Ontario. Therefore, assessment for this species focused on examining the suitability of chimneys for nesting and roosting using the Chimney Swift Monitoring Protocol (Bird Studies Canada, 2009) as well as making Chimney Swift observations.

The Chimney Swift Monitoring Protocol assesses the suitability of chimneys for Chimney Swift roosting/nesting based on their physical dimensions and the presence/absence of features which prevent Chimney Swifts from entering and leaving chimneys such as animal guards, spark protectors, terra cotta liners and metal liners. As buildings with potentially suitable chimneys were found within the Study Area only along the existing roadways, surveys consisted of stopping at 200 m intervals along all roadways where buildings occurred and determining the suitability of chimneys at these locations for Chimney Swift nesting and roosting. At each survey location, chimneys were observed for 15 minutes to allow opportunity to detect any Chimney Swifts using the chimney. Surveys for Chimney Swift were conducted throughout daylight hours as this species remains active throughout the day.

Using the 200 m intervals, and given the length of roadways present, 27 locations were surveyed within the SPA and 13 locations were surveyed within the Scube parcels. The lower number of locations within the Scube parcels is due to the lack of buildings in Scube East 'A' and Scube East 'B' parcels. Locations where chimneys were assessed for their suitability for Chimney Swift nesting are shown in **Figure 2**.

Chimney Swift surveys were conducted within the SPA on May 17th and 31st, 2012. Additional observations within the SPA were made June 25th, 2012 at two locations where Chimney Swift were encountered on May 31st. Surveys within the Scube Parcels occurred on June 26th, July 4th and July 12th, 2012.



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Methods

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In addition to the dedicated Chimney Swift survey, any Chimney Swifts encountered in all other surveys conducted including SAR Surveys for Barn Swallow, Bobolink and Eastern Meadowlark and surveys for non-SAR birds were also recorded.

### **3.2 BARN SWALLOW**

No MNR-sanctioned survey method for Barn Swallows exists. Recognizing that it is standard practice in avian surveys to identify and record all species of birds heard or seen, it was decided to assess Barn Swallows simultaneously with other species during standard OBBA point counts. These point counts are of five minute duration and are conducted during early morning hours (5 AM to 10 AM) when bird activity is at a maximum.

Point count locations were chosen before fieldwork commenced through consideration of habitat as characterized by Aquafor Beech (2012). Locations were chosen to provide the best possible access to all habitats found within the study area. Selection of point count locations had to accommodate limited property access within the SPA and restriction to road rights-of-way (ROWs) within the Scube Parcels. The survey locations selected for Barn Swallows were considered to adequately cover available habitat since Barn Swallows are aerial foragers and are highly mobile and easily detectable. To increase the probability of detection, monitoring occurred 3 times spaced through the nesting season.

Seventeen point count locations were chosen within both the SPA and Scube Parcels (**Figure 3**). Point counts within the SPA included locations both on and off roadways. Point counts within the Scube Parcels were limited to road ROWs. Surveys at the point count locations took place on June 11th/12th, June 25th and July 10th 2012 within the SPA and on June 26th, July 4th and July 12th, 2012 within the Scube Parcels.

Barn Swallow nests were searched for under bridges spanning watercourses within the SPA and Scube Parcels because Barn Swallows often nest on the exposed beams of older bridges (Cadman *et al.*, 2007). Aerial imagery and background documents identify that small watercourses cross under several roadways within the SPA and Scube Parcels including Barton, Highway 8, Fruitland Road and Glover Road in the SPA and the South Service Road in the Scube Parcels. Searches for Barn Swallow nests occurred at all locations where roads crossed watercourses.

Surveys for Barn Swallow nests took place at 7 watercourse locations within the SPA (**Figure 3**). These surveys took place on June 11th/12th, June 25th and July 10th 2012 within the SPA. Surveys for Barn Swallow nests took place at 2 watercourse locations within the Scube Parcels (**Figure 3**). Surveys within the Scube Parcels occurred on June 26th, July 4th and July 12th, 2012. Surveys for Barn Swallow nests took place throughout the day as any nests present would be visible at any time of the day.

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Any incidental observations of Barn Swallows made during Chimney Swift, Bobolink and Eastern Meadowlark surveys were also recorded.

### **3.3 EASTERN MEADOWLARK**

Surveys for Eastern Meadowlark used 10 minute point counts in areas of apparently suitable habitat as identified through prior studies (Aquafor Beech, 2012) and aerial imagery. The 10 minute period is suggested by the MNR and is probably sufficient given the species frequent and distinctive vocalizations and conspicuousness in the open habitats it frequents.

Areas of apparently suitable habitat for Eastern Meadowlark consist of forb meadow, fresh – moist mixed meadow habitats and other open habitats. Point count locations were selected within the SPA and Scube Parcels before fieldwork commenced, in areas where access had been granted and habitat appeared suitable. To improve probability of detection, monitoring occurred 3 times spaced through the nesting season.

Surveys within the SPA took place at 10 locations on June 11th/12th, June 25th and July 10th, 2012. An initial reconnaissance of the Scube Parcels for Eastern Meadowlark habitat found habitat to be limited, such that only 1 location of apparently suitable habitat was selected for surveys. Surveys within the Scube Parcels occurred on June 26th, July 4th and July 12th, 2012. Because access to properties was not obtained for the Scube Parcels, this survey took place along the roadway adjacent to suitable habitat. Eastern Meadowlark survey locations are shown on **Figure 4**.

During general Breeding Bird Surveys and all other surveys, any additional Eastern Meadowlark sightings were recorded.

### **3.4 BOBOLINK**

Bobolink was searched for simultaneously with Eastern Meadowlark at the same locations and dates. Therefore, surveys within the SPA took place at 10 locations on June 11th/12th, June 25th and July 10th, 2012 and within the Scube Parcels at 1 location on June 26th, July 4th and July 12th, 2012. Bobolink survey locations are shown on **Figure 4**.

During general Breeding Bird Surveys and all other surveys, any additional Bobolink sightings were recorded.

### **3.5 COMMON SPECIES**

Surveys of non-SAR birds were conducted within the SPA and Scube Parcels using 5 minute point counts during which all species of birds heard or seen are identified and recorded. This 5 minute period is the standard recommended in the OBBA (Cadman *et al.*, 2007). Surveys were conducted during early morning hours (5 AM to 10 AM) when bird activity is at a maximum.

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Point count locations were chosen before fieldwork commenced through consideration of habitat as characterized by Aquafor Beech (2012). Locations were selected to provide the best possible access to all habitats found within the study area. Selection of point count locations had to accommodate limited property access within the SPA and restriction to road ROWs within the Scube Parcels. This restriction on point count locations likely affected detection of some species within the Scube Parcels.

To improve probability of detection, monitoring occurred 3 times spaced through the nesting season. Seventeen point count locations were chosen within both the SPA and Scube Parcels (**Figure 5**). Point counts within the SPA included locations both on and off roadways. Point counts within the Scube Parcels were limited to road ROWs. Surveys at the point count locations took place on June 11th/12th, June 25th and July 10th 2012 within the SPA and on June 26th, July 4th and July 12th, 2012 within the Scube Parcels.

Any avian SAR observed during these surveys were recorded and are mapped and considered in this report.

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Considerations for Species at Risk

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## **4.0 Considerations for Species at Risk**

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This section presents relevant information on the biology of Chimney Swift, Barn Swallow, Eastern Meadowlark and Bobolink, evidence that declines have occurred in Ontario's populations and factors thought to be involved in their declines.

Evidence of declines is based primarily on the Ontario Breeding Bird Atlas (OBBA) (Cadman *et al.*, 2007) and Breeding Bird Survey (BBS) (Sauer *et al.*, 2011) as these two projects provide the most comprehensive information on Ontario's bird populations. The OBBA was conducted from 1981 to 1985 (Cadman *et al.*, 1987) and again from 2001 to 2005 (Cadman *et al.*, 2007), with over 121,000 hours and 152,000 hours of observations conducted in the first and second atlases respectively. The BBS has been conducted annually since 1966 across North America and Ontario and over 300 surveys have been conducted within Ontario (Sauer *et al.*, 2011).

Factors thought to be involved in declines are those discussed in relevant COSEWIC and COSSARO reports.

### **4.1 CHIMNEY SWIFT**

Chimney Swift can be thought of as having two components to its habitat: chimneys within which nesting, roosting and reproduction occur and air masses within which foraging takes place. Chimney Swift nest sites have been afforded general habitat protection through the ESA (MNR 2008).

Chimney Swift is an aerial forager of flying insects; a group or guild of bird species that includes swallows, martins, flycatchers and goatsuckers. Aerial foragers have experienced widespread population declines since about the 1980s and these declines are suspected to be due, in part, to declining populations of flying insects (McCracken, 2008). According to the BBS, the Canadian Chimney Swift population declined 7.8% annually between 1968 and 2005, resulting in a cumulative decline of 95% over that 37-year period (COSEWIC, 2007). Similarly, data from the OBBA estimates that the probability of Chimney Swift detection declined by 46% in Ontario between 1981-1985 and 2001-2005. Data from the United States indicates that the species is declining there as well (COSEWIC 2007).

Chimney Swifts are believed to have declined only in part due to drops in flying insect populations. Major losses of nest and roost sites may be a more significant problem. Chimney Swifts are almost entirely dependent upon chimneys for nesting and roosting. Suitable chimneys are larger than 28.5 cm in diameter, offer protection against cold weather and include a rough inner surface of brick, cement, or tile permitting the attachment of nests. Suitable chimneys also must be freely accessible to Chimney Swifts (Bird Studies Canada, 2009). In recent decades, older chimneys have been modified to improve safety by the addition of spark protectors, animal

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guards, metal liners and caps. These modifications inadvertently made chimneys inaccessible to Chimney Swifts (COSSARO, 2009; COSEWIC, 2007). As well, since about 1960, homes have generally been built with chimneys too small for use by Chimney Swift.

As the dramatic reduction in suitable nesting and roosting sites appears to be a principal cause for declining populations of Chimney Swift, any effort to protect the species would need to focus on protecting remaining nest and roost sites.

## **4.2 BARN SWALLOW**

Like the Chimney Swift, Barn Swallow habitat can be considered to consist of a nest site and foraging habitat. Nests are almost always built on human structures that provide a horizontal nesting surface such as barns, sheds, garages, bridges with exposed beams and road culverts. Barns have historically been important breeding sites for Barn Swallow and unlike garages, shed and other structures where nest sites are more limited, barns typically support larger colonies of Barn Swallow (COSEWIC, 2011a). Barn Swallows forage for flying insects over a variety of relatively open areas such as pastures, fallow land, and farmland of various descriptions, wetlands, road ROWs, large forest clearings, cottage areas, islands, sand dunes and lakeshores (COSEWIC, 2011a).

Like Chimney Swift, Barn Swallows are aerial foragers and have experienced widespread population declines both within Ontario and across much of North America (COSSARO, 2011a). The declines in Barn Swallow populations are likely due in part to reductions in flying insect populations (McCracken, 2008). In Canada, long-term BBS data show a statistically significant decline of 3.6% per year between 1970 and 2009, which corresponds to an overall population decline of about 76% over the last 40 years (COSEWIC, 2011a). In Ontario, the probability of detection for Barn Swallow declined by 35% between the first and second OBBA (Cadman *et al.*, 2007).

Despite these declines, Barn Swallows remain quite widespread and common in southern Ontario (Cadman *et al.*, 2007; COSEWIC 2011a). While it may seem contradictory that a species can be both “at risk” and relatively common and widespread, SAR classification within Ontario considers population trends and threats to a species as well as its current abundance and distribution. For Barn Swallow, classification as a provincially threatened species was made because the population decline is over the threshold level of 30% over the most recent 10-year period (COSSARO 2011a).

While declining populations of flying insects are likely partly responsible for declines in Barn Swallow populations, declines in the number of nest sites may also be involved as older-style wooden farm structures with easy access to nest sites are gradually replaced by modern buildings that lack easy access to suitable nesting sites (COSEWIC, 2011a; COSSARO, 2011a). Other factors responsible for declining populations are the replacement of grassland

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and pastures with row crops and urban land uses, use of pesticides, reduction in the fecundity of Barn Swallows and other factors (COSEWIC, 2011a).

#### **4.3 EASTERN MEADOWLARK**

The Eastern Meadowlark is most common in native grasslands, pastures and savannahs. It also uses other anthropogenic grassland habitats including hayfields, weedy meadows and grassy airfields. Eastern Meadowlarks occasionally nest in row crop fields such as corn and soybean, but these crops are considered low-quality habitat. Large tracts of grasslands are preferred over smaller fragments: the 'Significant Wildlife Habitat Technical Guide' (MNR, 2000) states that 10 ha of suitable habitat are necessary for Eastern Meadowlark breeding. Vegetation structure is also important. Generally, optimal habitat contains moderately tall (25 to 50 cm) grass with abundant litter cover, a high proportion of grass, moderate to high forb density and low shrub and tree cover.

The Eastern Meadowlark is one of a number of grassland species which have shown widespread population declines (McCracken, 2005). The Eastern Meadowlark has shown significant declines in Ontario and Canada. Long-term BBS data show a statistically significant population decline of 3.1% per year in Canada between 1970 and 2009, which corresponds to an overall decline of 71% over 40 years (Sauer *et al.*, 2011). The OBBA shows a similar decline with Eastern Meadowlark detected 13% less frequently in Ontario and 16% less frequently in the Carolinian zone in the second Atlas compared to the first 20 years earlier.

Several factors appear to be involved in the species' declining populations. Habitat loss appears to be a primary factor as grasslands and pastures at the edges of urban areas or in marginal farming areas are abandoned and succeed to forest or shrub-dominated areas. Habitat is also lost when grasslands and pastures are converted to row crops or urban land uses. Other factors that may be involved in declining populations include: changes in farming practices, particularly earlier and more frequent haying that appears to significantly reduce nestling and adult survival; pesticide use; predation; Brown-headed Cowbird parasitism; climate change; and overgrazing by livestock (COSEWIC, 2011b; COSSARO, 2011b).

#### **4.4 BOBOLINK**

The Bobolink nests primarily in forage crops (e.g. hayfields and pastures), abandoned fields dominated by tall grasses and small-grain fields (COSEWIC, 2010). In Ontario it was probably originally rare, but its range expanded with the arrival of Europeans and the conversion of forests to forage crops. The Bobolink is sensitive to habitat size; the 'Significant Wildlife Habitat Technical Guide' (MNR, 2000) suggests that habitat should be at least 50 ha in size to support breeding.

Like Eastern Meadowlark, Bobolink is a grassland species. The Bobolink has significantly declined in Canada and Ontario. In Canada, long-term BBS data show a significant decline of

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5.2% per year between 1968 and 2008, which corresponds to a population loss of 88% over the last 40 years (COSEWIC, 2010). In Ontario, the OBBA showed a statistically significant decline in the probability of detection of 28% in Ontario and of 10% within the Carolinian zone between 1981-1985 and 2001-2005.

Changing farming practices and habitat loss appear to be the major factors involved in population declines. Haying is occurring earlier in the summer and frequently occurs before Bobolinks fledge. When fields with active nests are cut, mortality of young is 94% (COSEWIC 2010). The conversion of hayfields and pastures to row crops has also played a part in population declines as row crops are rarely used for nesting. Pastures have declined by 35% to 70% between 1981 and 2001 in different regions of Ontario (Cadman *et al.*, 2007). Bobolink breeding habitat has also been lost as farmland near cities have been converted to urban land uses, and abandoned farmland has succeeded to forested or shrub-dominated habitat. Pesticide use on both breeding and wintering grounds, habitat fragmentation, overgrazing by livestock and climate change are also considered potential contributors to population declines (COSEWIC 2010; COSSARO 2010).

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Results

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## 5.0 Results

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The following reports findings of 2012 surveys for SAR based on all survey types and for non-SAR based on general Breeding Bird Surveys. All data sheets used to record observations are provided in **Appendix C**.

### 5.1 CHIMNEY SWIFT

#### 5.1.1 Fruitland-Winona SPA

A significant effort was made to detect Chimney Swift and Chimney Swift accessible chimneys in the SPA. Surveys of chimneys took place at 27 locations on May 17th and 31st, 2012. Additional opportunity to detect Chimney Swifts occurred while conducting non-SAR bird surveys. Such surveys took place at 17 locations throughout the SPA on June 11th/12th, June 25th and July 10th, 2012. The total time spent searching for Chimney Swift within the SPA was approximately 30 hours.

Despite this considerable search effort, Chimney Swift was recorded at only 3 locations within the SPA. Birds observed appeared to be foraging only, flying well above chimneys present, making no effort to enter chimneys and flying over an extensive area. As Chimney Swifts are aerial foragers which fly for much of the day and wander widely from nest and roost sites, the limited observations suggest that the observed swifts nest and roost outside of the SPA but occasionally forage in the air mass above the SPA. Locations where Chimney Swift was encountered were in the vicinity of Highway 8 and are shown in **Figure 6**.

During surveys of chimneys, chimneys at 27 properties were assessed for suitability based on their dimensions and the presence or absence of safety features such as animal guards, spark protectors, metal liners, and terra cotta liners. At all chimneys examined, it was observed that chimneys were unsuitable for nesting or roosting due to various types of modifications to chimneys which prevent swifts from entering.

Based on the unsuitability of chimneys, the limited number of Chimney Swift sightings and the behaviour of those swifts observed, Chimney Swifts do not appear to nest or roost within the SPA.

#### 5.1.2 Scube Parcels

A significant effort was also made to detect Chimney Swift and Chimney Swift accessible chimneys in the Scube parcels. Surveys of chimneys took place on June 26th, July 4th and 12th, 2012 using the Chimney Swift Monitoring Protocol at 13 locations. As with the SPA, additional opportunity to detect Chimney Swifts occurred while conducting non-SAR bird



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surveys which took place on June 26th, July 4th and July 12th, 2012 at 17 locations. Despite a search effort of approximately 10 hours during dedicated Chimney Swift surveys and an additional time of approximately 15 hours during general breeding bird surveys, Chimney Swift was not recorded within any of the Scube parcels during any component of fieldwork (**Figure 6**).

Chimneys were assessed for suitability for Chimney Swift nesting and roosting on June 26th, July 4th and 12th, 2012 using the Chimney Swift Monitoring Protocol at 13 locations. No chimneys were found which appeared suitable for use by Chimney Swift. Only Scube Central had a significant number of buildings with chimneys, but these chimneys all had modifications such as animal guards and metal liners which prevent Chimney Swift from entering the chimney. Chimneys were found to be almost entirely lacking in the Scube East 'A' and Scube East 'B' parcels due to buildings being only rarely present.

Based on the lack of Chimney Swift sightings and the unsuitability of chimneys, Chimney Swifts do not appear to nest or roost within the Scube Parcels.

## **5.2 BARN SWALLOW**

### **5.2.1 Fruitland-Winona SPA**

Barn Swallows are common and widespread within the SPA. They were observed at 17 locations and were encountered on surveys conducted May 17th and 31st, June 11th, 12th and 25th and July 10th, 2012. Birds were encountered on general Breeding Bird Surveys, Bobolink and Eastern Meadowlark surveys and Chimney Swift surveys. Surprisingly, no Barn Swallows or Barn Swallow nests were encountered at the seven watercourse crossing locations. Overall, the species was encountered with such frequency that it was one of the most widespread species in the SPA (**Table 1**, Appendix B). The locations of observed birds are shown in **Figure 7**. The abundance of Barn Swallow within the SPA may seem at odds with its status as a provincially threatened SAR but its provincial status is based on declining numbers (COSSARO 2011a) rather than rarity and our results are in accord with results of the second OBBA which showed it to be present in almost all parts of southern Ontario (Cadman *et al.*, 2007).

Birds were observed to preferentially forage over cultural meadows, abandoned farmland, agricultural fields and mown lawns. These habitats are all herbaceous-dominated and consistent with descriptions of foraging habitat provided in COSEWIC (2011a). Field investigations and aerial photography show such herbaceous-dominated areas to dominate the majority of the SPA and the ubiquity of this type of habitat likely accounts for the abundance of the species within the SPA. When observed, Barn Swallows were found in small numbers (<10) rather than large concentrations.

During fieldwork it was observed that apparently suitable nest sites for Barn Swallow such as sheds and garages were common within the SPA. While these structures were not counted they may number several hundred. These apparently suitable structures are for the most part

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associated with private residences which are common along all roadways and not within the interior of land parcels. Field investigations also determined that barns which could support larger Barn Swallow colonies were not present within the SPA. Therefore it is expected that sheds, garages and other structures associated with private residences are the most frequently used and important structures for Barn Swallow nesting. Observations which would suggest nesting in these structures such as birds entering/leaving buildings were limited but did occur. Unlike barns which can support larger colonies (COSEWIC, 2011a), individual sheds and garages within the SPA likely typically support only one or two pairs due to their relatively limited space.

Barn Swallow nests were specifically searched for at 7 locations where roadways within the SPA crossed watercourses (**Figure 2**). This specific effort was made because Barn Swallows frequently nest on the exposed horizontal beams that support many bridges. Barn Swallow nests were not observed at any of the 7 watercourse crossings and watercourses were found to be spanned by box culverts or corrugated steel pipes rather than bridges. The box culverts and corrugated steel pipes which span watercourses within the SPA do not provide Barn Swallow nesting opportunities due to the lack of horizontal structures upon which swallows could build nests, their relatively small height and width (1 to 2 m) and the presence of vegetation at the ends of culverts which appears likely to obstruct Barn Swallows from entering.

### **5.2.2 Scube Parcels**

Barn Swallows are common and widespread within the Scube parcels. They were observed at 14 locations within the Scube parcels distributed across all Scube Parcels. Barn Swallows were observed on surveys conducted June 26th, July 4th and July 12th, 2012 both during general Breeding Bird and dedicated Chimney Swift surveys. The locations of observed birds are shown in **Figure 7** and the relevant data sheets are provided in **Appendix C**.

Birds observed were foraging over cultural meadows, abandoned farmland and mown lawns. Field investigations and aerial photography show such areas to dominate the majority of the Scube Parcels and the ubiquity of this type of habitat likely accounts for the abundance of the species within the Scube Parcels. When observed, Barn Swallows were found in small numbers (<10) rather than large concentrations.

Field investigations determined that apparently suitable nest sites such as sheds and garages were common within the Scube Central parcel and concentrated along existing roadways and not within the interior of land parcels. Scube East Parcel 'A' and Scube East Parcel 'B' had very limited number of garages, sheds and other potential nest sites within them. Field investigations also determined that barns which often support larger colonies in Ontario were not present within the Scube parcels.

Watercourse crossings which have the potential to allow Barn Swallow nesting under bridges were limited to a crossing of a creek along the South Service Road to the east of Fifty Road. No

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Barn Swallows or their nests were observed at this watercourse (**Table 2**, Appendix B). Field investigations determined that this watercourse is spanned by a relatively large box culvert which does not provide nesting opportunities due to the lack of ledges upon which swallows could build nests, and the presence of vegetation at the ends of culverts which appeared to obstruct entrance to the culverts.

### **5.3 EASTERN MEADOWLARK**

#### **5.3.1 Fruitland-Winona SPA**

A significant effort was made to detect Eastern Meadowlark in the SPA. Dedicated Eastern Meadowlark surveys took place at 10 locations with suitable habitat located throughout the SPA on June 11th/12th, June 25th and July 10th, 2012. General breeding bird surveys which can also detect Eastern Meadowlark took place at an additional 7 locations on June 11th/12th, June 25th and July 10th, 2012. The total time spent searching for Eastern Meadowlark within the SPA was approximately 15 hours.

Despite this significant search effort, Eastern Meadowlarks were not observed within the SPA during surveys dedicated to this species or during other fieldwork (**Figure 8**). The lack of observations occurred despite the conspicuous nature of the species and the observers' prior experience with the species. When present, the Eastern Meadowlark is easily detected as its breeding songs and calls are distinctive and its frequent flights above grasslands are conspicuous. The absence of sightings during our 2012 investigations provides good evidence that no Eastern Meadowlark breeding occurred this year within the SPA.

Habitat within the SPA appears unsuitable for Eastern Meadowlarks for two reasons. First, grassland habitats within the SPA are relatively small compared to the 10 ha value cited in the 'Significant Wildlife Habitat Technical Guide' (MNR, 2000). Second, herbaceous vegetation appears to be denser, higher and composed of a high frequency of forbs relative to grasses compared to optimal habitat preferred by Eastern Meadowlarks (Zimmerman, 1992; Bollinger, 1995). Optimal habitat for Eastern Meadowlark is considered to consist of sparse, short, patchily-distributed, grass-dominated vegetation. Third, shrubs and tree saplings appear to be too frequent within abandoned farmland for Eastern Meadowlark. Shrub and tree cover values of 5% are considered optimal for Eastern Meadowlark habitat (COSEWIC, 2011b) but shrub and tree cover within the SPA appeared to significantly exceed this value. As the shrub and tree saplings already present will likely increase in density and height, the suitability of the land for breeding by Eastern Meadowlark will only decrease in the future.

#### **5.3.2 Scube Parcels**

Search effort for Eastern Meadowlark within the Scube Parcels was considerable with searches occurring at 17 locations on June 26th, July 4th and July 12th, 2012. Despite a search effort of approximately 15 hours within the Scube parcels, Eastern Meadowlarks were detected at only

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three locations within the Scube parcels, all in the vicinity of Lewis Road (**Figure 8**). Birds were encountered at these sites only on the initial survey (June 26th) and appeared to be absent on subsequent surveys (July 4th and 12th) at the same locations. Due to its frequent vocalizations, Eastern Meadowlark is a fairly conspicuous species and the lack of sightings on July 4th and 12th suggests the species may have abandoned the sites between the first and subsequent surveys.

Habitat within the Scube parcels was compared to optimal Eastern Meadowlark habitat as described in COSEWIC (2011b) and the 'Significant Wildlife Habitat Technical Guide' (MNR, 2000). To be suitable for occupancy, grassland habitat must be 10 ha or larger (MNR 2000). However, within the Scube parcels, hedgerows, shrubs and treed areas are frequent and appear to fragment grassland habitat into areas less than 10 ha in size. Second, optimal shrub and tree cover is considered to be 5% for Eastern Meadowlark (COSEWIC, 2011b) but shrub and tree cover within herbaceous-dominated areas appears to exceed this value. Due to insufficient sizes and excessive woody cover, habitat for Eastern Meadowlark appears to be marginal within the Scube parcels.

## **5.4 BOBOLINK**

### **5.4.1 Fruitland-Winona SPA**

Despite three surveys conducted specifically to detect Bobolink at 10 point count locations and an additional three surveys conducted for breeding birds in general at 17 point count locations, Bobolinks were observed in only one part of the SPA. These sightings occurred between Fruitland and Jones Roads where a mixed meadow several hectares in size exists (**Figure 8**). During the June 11th, 2012 survey, 4 male and 1 female Bobolink were observed in a mixed meadow. Two males appeared agitated by the observer's presence and the female appeared paired with one of the males. These observations suggest that at this date, Bobolinks were attempting to breed within the area. During the second and third surveys conducted June 25th and July 10th, 2012, no Bobolinks were observed in the same area. Their absence at these later dates suggests the birds had abandoned the mixed meadow as it is unlikely that birds would have successfully bred and then dispersed from the area by these dates.

The area Bobolinks were observed within had earlier been identified as a fresh-moist mixed meadow (Aquafor Beech, 2012). Habitat within this area was compared to optimal Bobolink habitat as described in COSEWIC (2010) and the 'Significant Wildlife Habitat Technical Guide' (MNR, 2000). Optimal Bobolink habitat has a low frequency of shrub and tree cover within the dominant herbaceous vegetation (COSEWIC, 2010). While conducting fieldwork, it was observed that the mixed meadow had inclusions of old hedgerows and stands of trees and shrubs and that the number of new saplings and shrubs was high, making the area unsuitable as Bobolink habitat. Further evidence of the unsuitability of the area for Bobolink is based on the area occupied. The 'Significant Wildlife Habitat Technical Guide' (MNR, 2000) states that 50 ha or more of habitat is required for occupancy by Bobolink. Within the SPA, the area occupied by

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Bobolink was estimated by creating a polygon from observation locations and determining the enclosed area. This area was determined by be 7 ha, far below the 50 ha value cited in the 'Significant Wildlife Habitat Technical Guide' (MNR, 2000).

During the July 10th, 2012 survey, 2 male and one female/juvenile Bobolinks overflew the area. Based on their behaviour, these birds appeared to be post-breeding individuals moving through the area. Fall migration of this species begins in mid-to-late July, with adults and immature birds forming loose flocks close to the breeding grounds (COSEWIC, 2010).

### **5.4.2 Scube Parcels**

Despite a search effort of approximately 15 hours which included three surveys for breeding birds in general at 17 locations and three surveys specifically for Bobolink at one location, no evidence that Bobolink breed within the Scube parcels was obtained. During surveys conducted June 26th and July 4th, Bobolink was not observed at any locations despite the conspicuous nature of this species with its frequent singing and flights over open grasslands. The absence of sightings provides good evidence that Bobolinks do not breed within the Scube Parcels.

On the July 12th survey, Bobolink was observed at one location (**Figure 8**). At this location, three Bobolinks were observed to overfly the area, moving in an easterly direction without stopping. Fall migration of this species begins in mid-to-late July, with adults and immature birds forming loose flocks close to the breeding grounds (COSEWIC, 2010). The three individuals observed overflying the Scube parcels were judged to be post-breeding birds engaged in this behavior.

As with the SPA, habitat within the Scube parcels was compared to optimal Bobolink habitat as described in COSEWIC (2010) and the 'Significant Wildlife Habitat Technical Guide' (MNR, 2000). Optimal Bobolink habitat has a low frequency of shrub and tree cover within the dominant herbaceous vegetation (COSEWIC, 2010). While conducting fieldwork, it was observed that no land was being farmed and that fallow land was a mix of herbaceous meadows, thickets and early succession forest. As with the SPA, herbaceous dominated areas appeared to include a frequency of shrubs and saplings sufficiently high that these areas would be unsuitable for Bobolink. As well, no area of herbaceous-dominated vegetation was near in size to the 50 ha value cited in the 'Significant Wildlife Habitat Technical Guide' (MNR, 2000). It was also noted during fieldwork that some portions of the Scube parcels are being developed for residences.

Our observations that much of the Scube parcels are succeeding to tree and shrub-dominated communities or are being developed for residences, coupled with the lack of breeding evidence, strongly suggests that the Scube parcels lack breeding Bobolink and that the species will continue to be absent from the area.

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**5.5 COMMON NIGHTHAWK**

Common Nighthawk (*Chordeiles minor*) has been designated as a species of Special Concern on the SARO list and when observed is often within urban areas (Cadman *et al.*, 2007). Surveys for this species were not included within the work plan but one individual was observed during the Chimney Swift chimney assessment carried out May 31st. The individual observed was flying about 100 m above the ground in an erratic manner and appeared to be foraging in the way characteristic of its species. No behavior was observed which would suggest nesting. As a species of special concern, the Common Nighthawk and its habitat are not protected through the ESA, 2007.

**5.6 COMMON SPECIES**

The following section reports findings of 2012 general Breeding Bird Surveys with respect to all species of breeding birds including SAR. SAR results are discussed in more detail in **Sections 5.1 through 5.5**.

**5.6.1 Fruitland-Winona SPA**

A total of 44 species were encountered within the SPA. These species are listed in **Table 1** (Appendix B) from the most frequently encountered to least frequently encountered species. Of the 44 species encountered, 26 are considered to be common and widespread within Ontario (S5 rank), 14 are considered uncommon but not rare within Ontario (S4 rank) and 2 species are not native to Ontario.

Species observed are adaptive to a wide variety of habitat and capable of using small, fragmented areas of suitable habitat. Examples of such species include American Robin (*Turdus migratorius*), Song Sparrow (*Melospiza melodia*), Northern Cardinal (*Cardinalis cardinalis*), American Goldfinch (*Carduelis tristis*) and Brown-headed Cowbird (*Molothrus ater*). Each of these species was encountered at 10 or more locations within the SPA. Due to their abundance and widespread distributions within Ontario, these species are not considered of conservation concern. The provincially threatened Barn Swallow was also widespread (10 locations) and is discussed in **Section 5.2**.

The least frequent species were 11 species encountered at only 1 location. These species were Red-tailed Hawk, (*Buteo jamaicensis*), American Kestrel (*Falco sparverius*), American Woodcock (*Scolopax minor*), Black-billed Cuckoo (*Coccyzus erythrophthalmus*), Downy Woodpecker (*Picoides pubescens*), Northern Flicker (*Colaptes auratus*), Alder Flycatcher (*Empidonax alnorum*), Warbling Vireo (*Vireo gilvus*), White-breasted Nuthatch (*Sitta carolinensis*), Brown Thrasher (*Toxostoma rufum*) and Swamp Sparrow (*Melospiza georgiana*). Although these species were only infrequently found within the SPA, they are still relatively common species within Ontario with wide distributions (S4 and S5 species) and are not of conservation concern.

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Within the SPA, most species encountered have relatively stable populations. Thirty of 44 species encountered did not show any statistically significant change in numbers between the two OBBA periods in the Carolinian zone (**Table 1**, Appendix B). Relatively stable species include most of the more widespread species such as Northern Cardinal, Song Sparrow, Gray Catbird and Brown-headed Cowbird and the Barn Swallow, which was reported as stable in the Carolinian zone, even though this species was reported as showing statistically significant declines in the province as a whole based on the OBBA work.

Statistically significant declines over the OBBA periods were reported in 11 of the 44 species encountered (**Table 1**, Appendix B). Declining species included four aerial insectivores, five grassland/shrub species, one wetland and one forest species.

Declines in aerial insectivores are possibly due to declines in aerial insects, pesticides use both on breeding grounds and wintering areas, loss of habitat and for Chimney Swift, loss of nesting and roosting sites (North American Bird Conservation Initiative Canada, 2012; Nebel *et al.*, 2010). Declining aerial insectivores encountered within the SPA were Chimney Swift, Northern Rough-winged Swallow, Common Nighthawk and Eastern Kingbird.

Grassland and shrub dwelling species have shown widespread declines in much of North America (North American Bird Conservation Initiative Canada, 2012). The decline in grassland/shrub species appears to be due to: the loss of habitat as grasslands/shrub habitat is replaced by urban development near urban areas or reforested on marginal farmland; as pastures are replaced by row crops and hedgerows are removed; and through increases in pesticide and herbicide use (North American Bird Conservation Initiative Canada, 2012). Declining grassland/shrub species detected consisted of Field Sparrow, Bobolink, American Kestrel, Brown Thrasher and Eastern Kingbird, which is also considered a member of the aerial insectivores.

The wetland species encountered within the SPA which has shown declines within the Carolinian zone is the American Woodcock while the forest-dwelling species is the Northern Flicker.

Three species encountered within the SPA have had statistically significant population increases within the Carolinian zone; these species are House Finch, Cooper's Hawk and Black-capped Chickadee. The House Finch has shown a large population increase between 1981/85 and 2001/05. During this time period the species colonized southern Ontario after being introduced in New York state (Cadman *et al.*, 2007). Cooper's Hawk has also increased greatly after adapting to urban landscapes (Bird Life International, 2012). The Black-capped Chickadee population increase is much smaller but still statistically significant. Population increases are possibly due to an increase in the amount of forest habitat (North American Bird Conservation Initiative Canada, 2012).

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**5.6.2 Scube Parcels**

A total of 45 species were encountered within the Scube parcels and these are listed in **Table 2** (Appendix B) from the most frequently encountered to least frequently encountered species. Of species encountered, 24 are considered to be common and widespread within Ontario (S5 rank), 18 species are considered uncommon but not rare within Ontario (S4 rank) and 3 species are not native to Ontario.

As with the SPA, species were adaptive to a wide variety of habitat and capable of using small, fragmented areas of suitable habitat. The most widespread species were largely the same as within the SPA: American Robin, Northern Cardinal, Red-winged Blackbird (*Agelaius phoeniceus*), American Goldfinch, Song Sparrow and Brown-headed Cowbird were all encountered at 15 or more locations. These species are not considered of conservation concern.

The least frequently encountered species were 7 species encountered at 1 location: American Kestrel, Downy Woodpecker, Eastern Phoebe (*Sayornis phoebe*), Purple Martin (*Progne subis*), White-breasted Nuthatch (*Sitta carolinensis*), Indigo Bunting (*Passerina cyanea*) and Purple Finch (*Carpodacus purpureus*).

Barn Swallow, Eastern Meadowlark and Bobolink, all of which are provincially threatened, were all encountered within the Scube parcels. The Barn Swallow was observed at 14 locations (**Figure 4**) while the Eastern Meadowlark and Bobolink were observed at 3 and 1 locations respectively. These SAR are discussed in **Sections 5.2** through **5.4**.

The comparison of birds encountered in the Scube parcels and the list of increasing, decreasing and relatively stable species, based on the two OBBAs, yielded results similar to the SPA area. Of the 45 species encountered, 27 have shown relatively stable populations within the larger Carolinian zone between 1981/85 and 2001/05 (**Table 2**, Appendix B). Relatively stable species again include most of the species which are widespread in the Scube Parcels such as American Robin, Red-winged Blackbird, Mourning Dove, Song Sparrow and the Barn Swallow although this species has shown statistically significant declines in the province as a whole.

Statistically significant (<0.1) declines have occurred in 12 of the 45 species encountered within the Scube parcels (**Table 1**, Appendix B). Declining species included three aerial insectivores, six grassland/shrub species and three forest species. Declining aerial insectivores encountered within the Scube parcels were Northern Rough-winged Swallow, Eastern Kingbird and Purple Martin. Declines in aerial insectivores are possibly due to declines in aerial insects, pesticides use both on breeding grounds and wintering areas and loss of habitat (North American Bird Conservation Initiative Canada, 2012; Nebel *et al.*, 2010).

Grassland/shrub species encountered within the Scube parcels which have declined significantly in the Carolinian zone are Eastern Meadowlark, Field Sparrow, Bobolink, Brown



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Thrasher, American Kestrel and Eastern Kingbird which is a shrub-dwelling species as well as an aerial insectivore.

Forest-dwelling species encountered within the Scube parcels which have declined significantly in the Carolinian zone are Northern Flicker, Indigo Bunting and Purple Finch.

One additional declining species was encountered whose habitat is difficult to categorize. This species, the Killdeer, typically forages and nests on lawns and bare soil.

## **6.0 Discussion**

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The following section evaluates habitat in the SPA and Scube Parcels in terms of their potential use by Bobolink, Eastern Meadowlark, Barn Swallow, Chimney Swift and common species. No areas are recommended for preservation for these species due to small or non-existent populations, poor quality habitat which appears to be further declining in value as breeding habitat, and for Barn Swallows, the lack of concentrated breeding or foraging areas.

Stantec notes that this recommendation is purely from a Planning Act perspective and in no way affects the application of the ESA, 2007. The ESA, 2007 will continue to apply to all individuals and habitat for these Species at Risk, and will need to be applied on a case by case basis as any alterations to land use or habitat conditions are considered.

### **6.1 CHIMNEY SWIFT**

#### **6.1.1 Fruitland-Winona SPA**

No areas within the SPA are recommended for preservation as a means of preserving the provincially threatened Chimney Swift.

The primary reason for not protecting any portion of the SPA for Chimney Swift populations is that the species appears to be limited to occasional foraging within the air mass above the SPA. Nesting appears to occur somewhere outside of the SPA.

Secondly, it was observed that chimneys in the SPA were unsuitable for nesting or roosting by this species due to modifications to chimneys which increase safety but prevented Chimney Swift from entering.

#### **6.1.2 Scube Parcels**

No areas within the Scube Parcels are recommended for preservation as a means of preserving the provincially threatened Chimney Swift. The rationale for this conclusion is as follows.

Based on our 2012 surveys, the Chimney Swift does not appear to occur within the Scube Parcels (**Figure 6**).

Secondly, it was observed that chimneys in the Scube Parcels were unsuitable for nesting or roosting by this species due to the absence of chimneys in the Scube East 'A' and Scube East 'B' parcels, and the modifications to chimneys which had occurred in the Scube Central parcel.

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## **6.2 BARN SWALLOW**

### **6.2.1 Fruitland-Winona SPA**

No areas within the SPA are recommended for preservation as a means of preserving the provincially threatened Barn Swallow. This conclusion is based on the lack of concentrated foraging and nesting areas for Barn Swallows. The absence of areas where Barn Swallows nest or forage in large numbers means that protecting specific areas would be ineffective in protecting a large proportion of birds currently present. In addition, because Barn Swallow populations appear to be falling in part due to declining numbers of flying insects, and because numbers of flying insects are expected to continue to fall (McCracken, 2008), retention of specific nest sites and/or foraging areas is not likely to prevent Barn Swallow numbers from falling within the SPA.

### **6.2.2 Scube Parcels**

No areas within the Scube Parcels are recommended for preservation as a means of preserving the provincially threatened Barn Swallow. This conclusion is based on the lack of concentrated foraging and nesting areas for Barn Swallows. The absence of areas where Barn Swallows nest or forage in large numbers means that protecting specific areas would be ineffective in protecting a large proportion of birds currently present. In addition, because Barn Swallow populations appear to be falling in part due to declining numbers of flying insects, and because numbers of flying insects are expected to continue to fall (McCracken, 2008), retention of specific nest sites and/or foraging areas is not likely to prevent Barn Swallow numbers from falling within the Scube Parcels.

## **6.3 EASTERN MEADOWLARK**

### **6.3.1 Fruitland-Winona SPA**

No areas within the SPA are recommended for preservation as a means of preserving the provincially threatened Eastern Meadowlark.

The principal reason for not protecting land for Eastern Meadowlark within the SPA is that the species already appears to be absent. This conclusion is based on the findings of our 2012 surveys which did not detect Eastern Meadowlark within any part of the SPA (**Figure 8**).

A second reason for not protecting land for Eastern Meadowlark populations within the SPA is that habitat within the SPA appears to be unsuitable for Eastern Meadowlarks due to the insufficient size of grasslands present and excessive amounts of shrub and tree cover within grassland areas.

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Succession of fallow land within the SPA from herbaceous-dominated to shrub and tree-dominated communities is widespread and has made the SPA unsuitable for Eastern Meadowlark breeding. This same process of succession is also occurring within marginal farmland across much of Ontario and North America and causing declining populations in these much larger areas (COSSARO 2011b).

### **6.3.2 Scube Parcels**

No areas within the Scube Parcels are recommended for preservation as a means of preserving the provincially threatened Eastern Meadowlark.

The primary reason for not protecting land for Eastern Meadowlark populations within the Scube Parcels is that populations are small. This conclusion is based on our 2012 surveys which found only three individuals during approximately 15 hours of field investigations.

A second reason for not protecting land for Eastern Meadowlark populations within the Scube Parcels is that habitat within the Scube parcels appears to be unsuitable for Eastern Meadowlarks due to insufficient size and excessive woody cover.

The reforestation of fallow land within the Scube Parcels is reducing the suitability of habitat for Eastern Meadowlark. This same process is also occurring within marginal farmland across much of Ontario and North America and causing declining populations in these much larger areas (COSSARO, 2011b).

## **6.4 BOBOLINK**

### **6.4.1 Fruitland-Winona SPA**

No areas within the SPA are recommended for preservation as a means of preserving the provincially threatened Bobolink.

The first reason for not protecting land for Bobolink populations within the SPA is that the Bobolink population is already small and likely declining.

The second reason for not protecting land for Bobolink populations within the SPA is that Bobolink habitat within the SPA is of marginal and decreasing value to Bobolinks due to insufficient area and the high frequency of shrub and sapling growth. Within several years, this growth in the amount of woody vegetation will likely result in the disappearance of Bobolink as a breeding species from the SPA.

The succession of abandoned farmland from herbaceous-dominated to shrub and tree-dominated communities which is occurring within the SPA is an example of the larger scale succession of abandoned farmland across Ontario and much of North America which is

**REPORT ON FOUR AVIAN SPECIES AT RISK AND OTHER BREEDING BIRD SPECIES WITHIN FRUITLAND-WINONA SECONDARY PLAN AREA, SCUBE CENTRAL, SCUBE EAST 'A' AND SCUBE EAST 'B' PARCELS**

Discussion

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considered to be a major factor in the species' decline within Ontario and much of North America (COSSARO 2010).

#### **6.4.2 Scube Parcels**

No areas within the Scube Parcels are recommended for preservation as a means of preserving the provincially threatened Bobolink.

The first reason for not protecting land for Bobolink populations within the Scube Parcels is that a breeding population within these parcels already appears to be absent. This conclusion is based on the findings of our 2012 surveys.

The second reason for not protecting land for Bobolink populations within the Scube Parcels is that habitat within the Scube parcels already appears to be unsuitable for Bobolinks due to the insufficient size of habitats and the high and increasing frequency of shrub and tree cover.

### **6.5 COMMON SPECIES**

#### **6.5.1 Fruitland-Winona SPA**

Forty-four (44) species of birds were encountered within the SPA and these included four (4) Species at Risk (Chimney Swift, Barn Swallow, Common Nighthawk and Bobolink) (**Table 1**, Appendix B). Most species encountered likely breed within the SPA and are common, widespread species within Ontario (S5), are uncommon but not rare within Ontario (S4) or are non-native species to Ontario (SNA). The majority of species are widespread because they commonly nest and forage in small and fragmented areas of suitable habitat such as occurs within the studied areas.

No portions of the SPA are recommended for preservation to protect common bird species found within them. This is because most common species present have stable numbers, are widespread within Ontario and adaptive to human development to the extent that they will continue to occur in developed areas, using planted trees and shrubs for nesting. Examples of such species include American Robin, Chipping Sparrow and American Goldfinch. Additional common species found within the SPA are declining in the larger Carolinian zone but preservation of habitat for these species within the SPA is not recommended due to the ineffectiveness of habitat protection in a small portion of these species' ranges to reverse declining populations at much larger scales. For example, Field Sparrow, Eastern Kingbird, Northern Rough-winged Swallow and American Woodcock are all declining in the Carolinian zone, but protecting the limited habitat for these species found within the SPA will not effectively reverse population declines throughout the Carolinian zone. Other species which currently occur such as Willow Flycatcher, Savannah Sparrow and Northern Flicker are expected to disappear from the SPA as a result of development, but their expected disappearance is not considered sufficient cause to preserve the area as they are widespread within Ontario and not considered

**REPORT ON FOUR AVIAN SPECIES AT RISK AND OTHER BREEDING BIRD SPECIES WITHIN FRUITLAND-WINONA SECONDARY PLAN AREA, SCUBE CENTRAL, SCUBE EAST 'A' AND SCUBE EAST 'B' PARCELS**

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to be of conservation concern. Area-sensitive species of forest, grassland and wetland are often of conservation concern in areas with extensive development such as occurs within the SPA and Scube Parcels because suitable large areas of forest, grassland and wetland are infrequent in such areas. Within the SPA, 3 of 44 species found (Bobolink, Cooper's Hawk and White-breasted Nuthatch) are considered to be area-sensitive species. Based on the fragmented nature of habitat within the SPA, it cannot be considered important habitat for area-sensitive species.

### **6.5.2 Scube Parcels**

Forty-five (45) species of birds were encountered within the Scube Parcels including three (3) Species at Risk (Barn Swallow, Bobolink and Eastern Meadowlark) (**Table 2**, Appendix B). All species encountered likely breed within the Scube Parcels and are common, widespread species within Ontario (S5), are uncommon but not rare within Ontario (S4) or are non-native species to Ontario (SNA). The majority of species are widespread because they commonly nest and forage in small and fragmented areas of suitable habitat such as occurs within the studied areas.

No portions of the Scube Parcels are recommended for preservation to protect common bird species found within them. This is because most species present are common and widespread within Ontario and are adaptive to human development such that many will continue to occur in developed areas, using planted trees and shrubs for nesting. As with the SPA, additional common species found within the Scube Parcels are declining in the larger Carolinian zone but preservation of habitat for these species within the Scube parcels is not recommended due to the ineffectiveness of habitat protection in a small portion of these species' ranges to reverse declining populations at much larger scales. For example, Field Sparrow, Eastern Kingbird, Northern Rough-winged Swallow and American Woodcock are all declining in the Carolinian zone, but protecting habitat for these species within the Scube parcels will not effectively reverse population declines throughout the Carolinian zone. With development, some species are expected to disappear such as Willow Flycatcher, Gray Catbird and Savannah Sparrow however these species are not considered to be of conservation concern. Area-sensitive species of forest, grassland and wetland were limited to 3 of 45 species (Bobolink, Eastern Meadowlark and White-breasted Nuthatch) detected within the Scube Parcels. Based on the fragmented nature of habitat within the Scube Parcels, it cannot be considered important habitat for area-sensitive species.

**REPORT ON FOUR AVIAN SPECIES AT RISK AND OTHER BREEDING BIRD SPECIES  
WITHIN FRUITLAND-WINONA SECONDARY PLAN AREA, SCUBE CENTRAL, SCUBE  
EAST 'A' AND SCUBE EAST 'B' PARCELS**

Discussion

November 28, 2012

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The following individuals participated in the preparation of this report:

**STANTEC CONSULTING LTD.**



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Terrestrial Ecologist



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Senior Principal, Environmental Services

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**REPORT ON FOUR AVIAN SPECIES AT RISK AND OTHER BREEDING BIRD SPECIES  
WITHIN FRUITLAND-WINONA SECONDARY PLAN AREA, SCUBE CENTRAL, SCUBE  
EAST 'A' AND SCUBE EAST 'B' PARCELS**

References

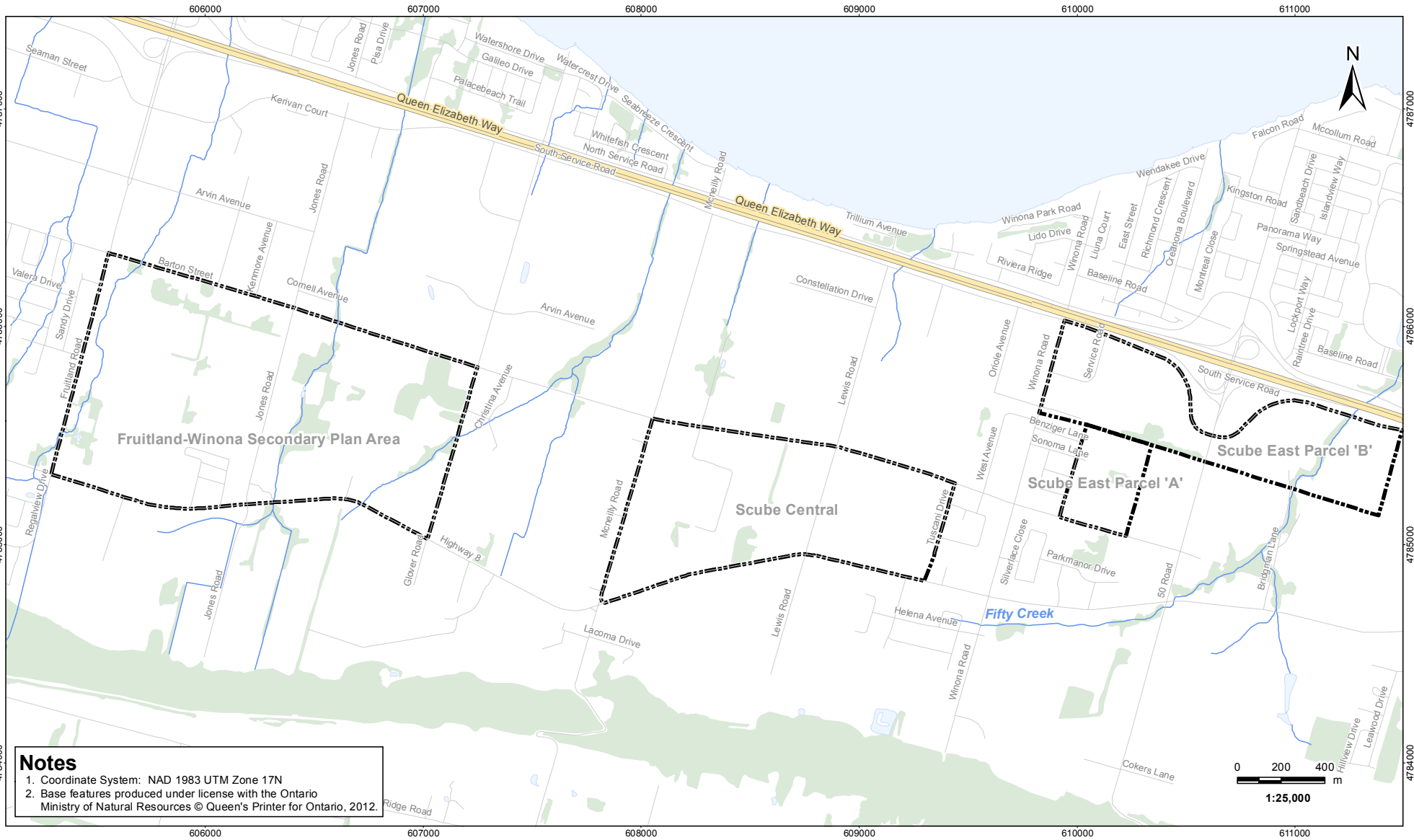
November 28, 2012

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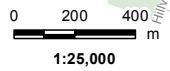
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## **Appendix A: Figures**

V:\01609\active\160950443\Drawing\MXD\Bird\_Surveys\_20120720\160950443\_Fig1\_Study\_Area.mxd  
 Revised: 2012-11-28 By: searles



**Notes**  
 1. Coordinate System: NAD 1983 UTM Zone 17N  
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November 2012  
 160950443



**Stantec**

**Legend**

- Study Area
- Watercourse
- Road
- Waterbody
- Highway
- Woodlot



Client/Project

City of Hamilton  
 SAR Surveys

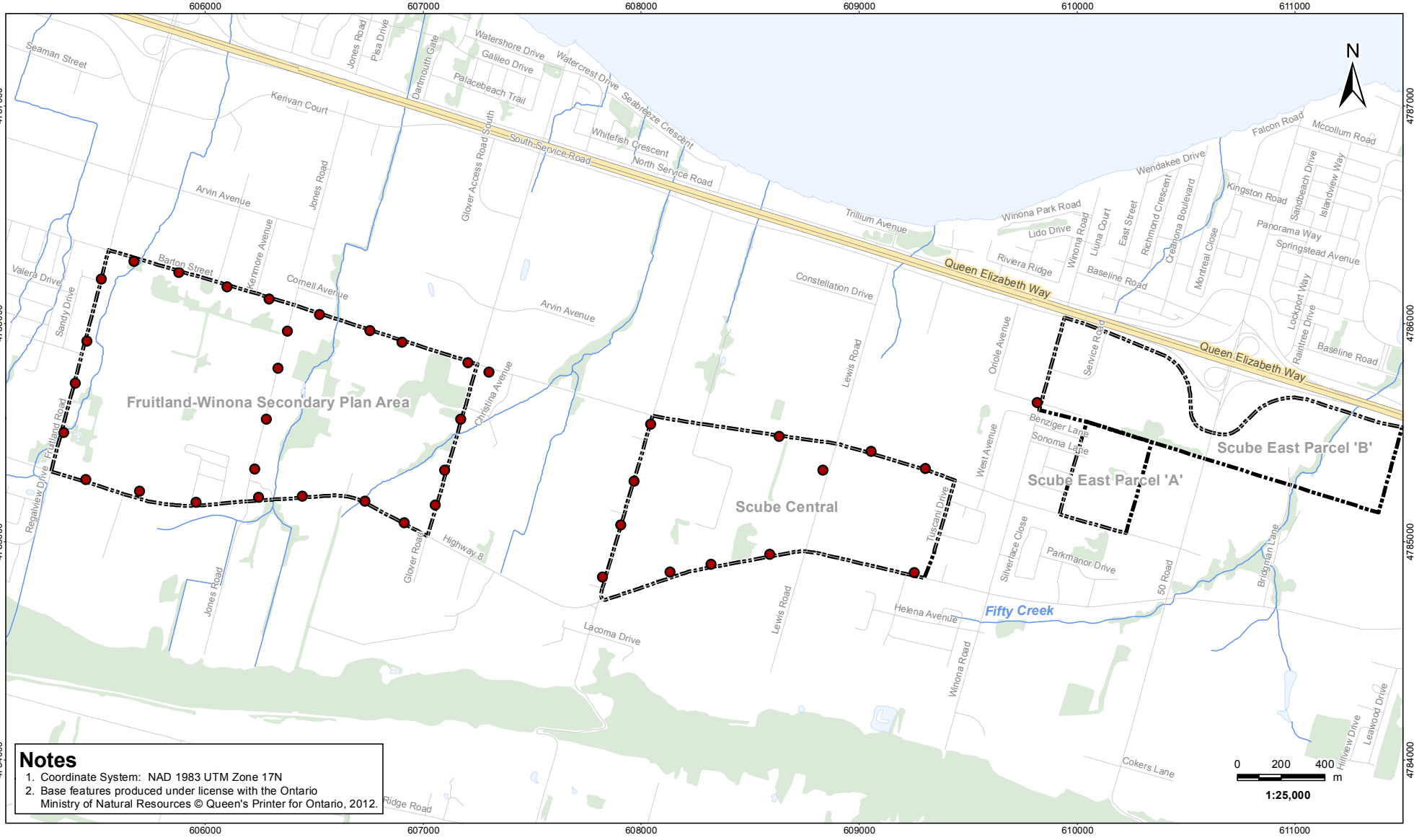
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1

Title

**Study Area**

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Revised: 2012-11-28 By: searles



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**Stantec**

**Legend**

- Chimney Swift Survey Location
- Study Area
- Road
- Highway
- Watercourse
- Waterbody
- Woodlot

Client/Project

City of Hamilton  
SAR Surveys

Figure No.

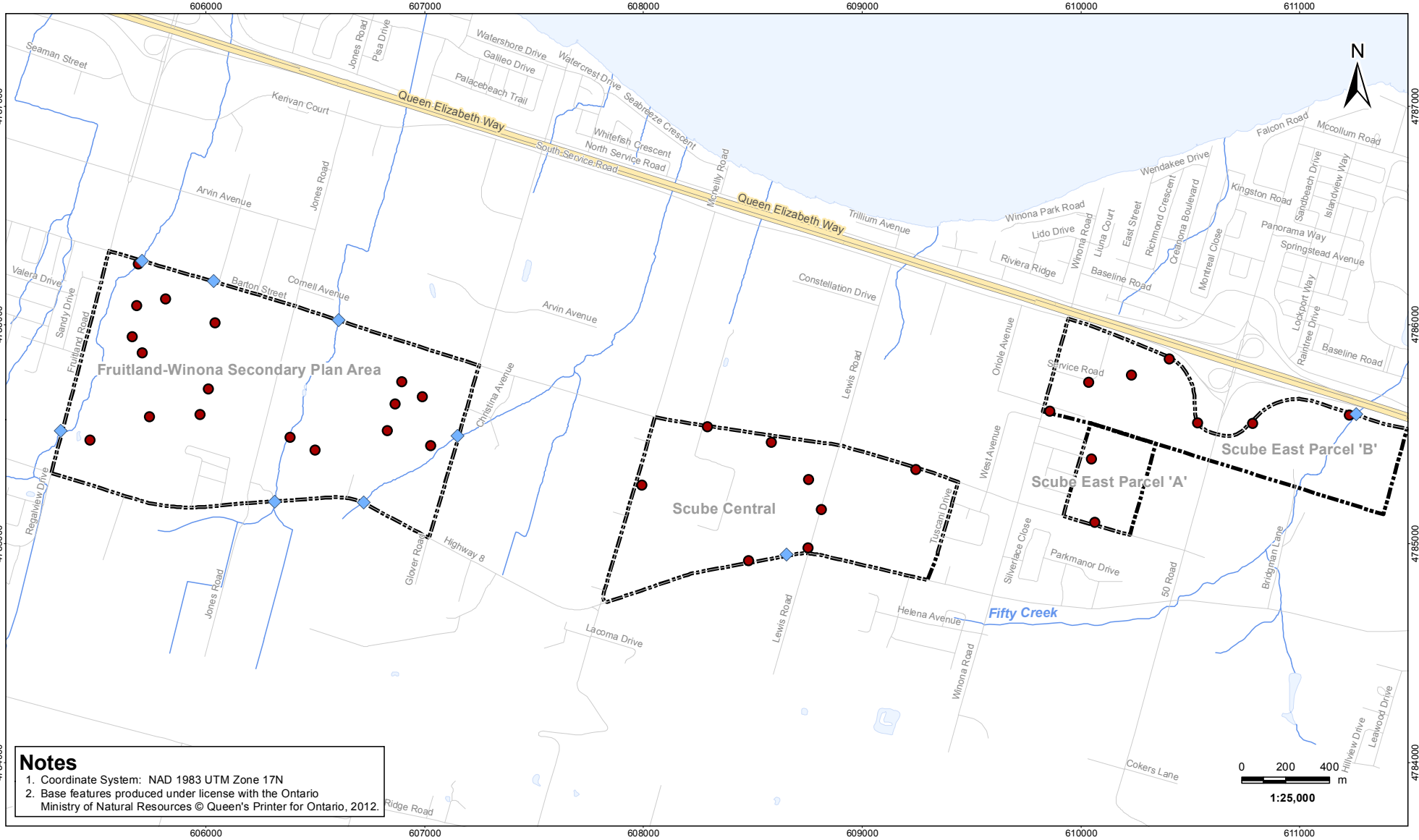
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**Chimney Swift  
Survey Location**

November 2012  
160950443

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**Stantec**

**Legend**

- Barn Swallow Survey Location
- ◆ Barn Swallow Nest Search Location
- Study Area
- Road
- Highway
- Watercourse
- Waterbody

Client/Project

City of Hamilton  
SAR Surveys

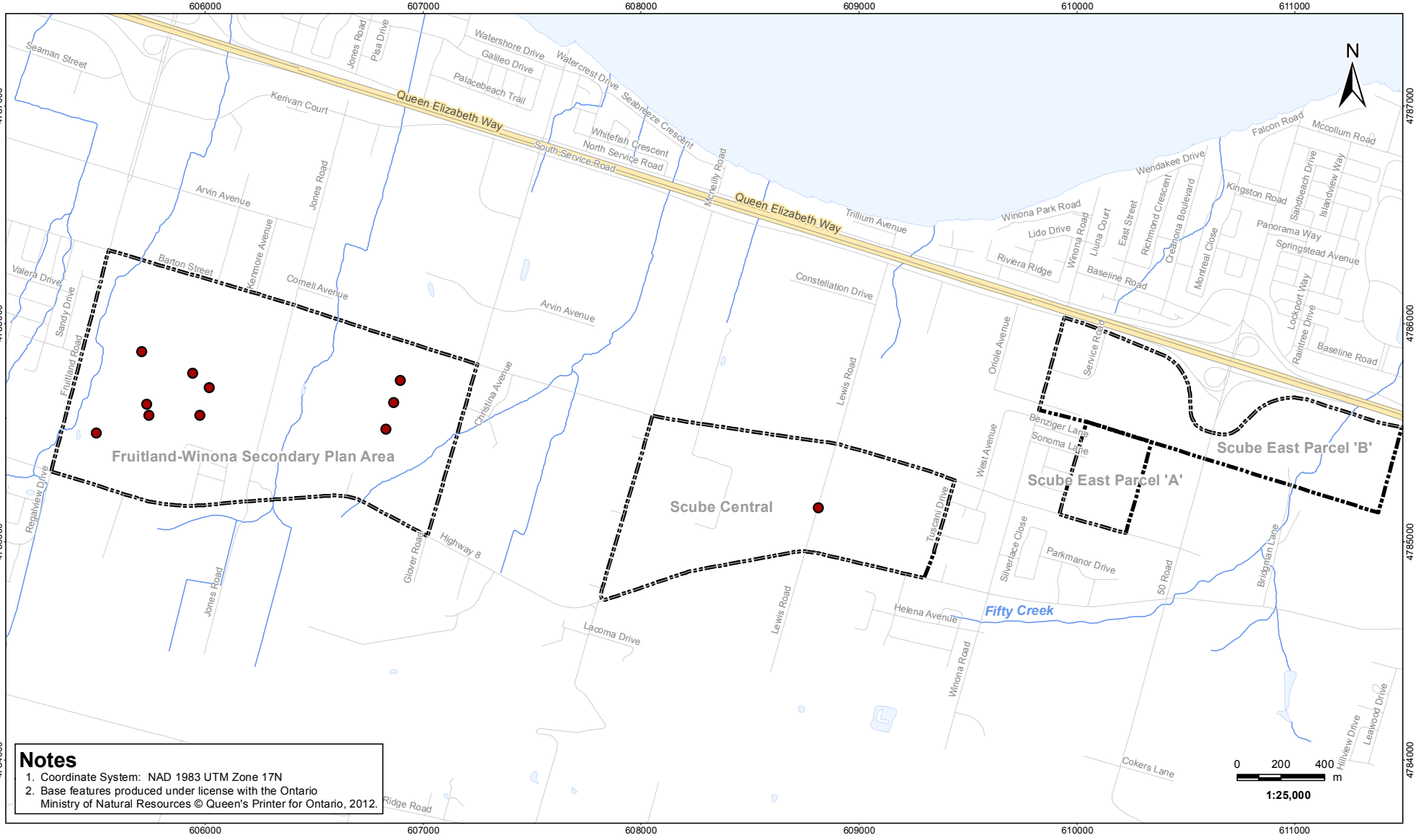
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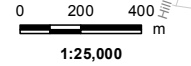
**Barn Swallow  
Survey Location**

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**Legend**

- Bobolink/Eastern Meadowlark Survey Location
- Study Area
- Road
- Highway
- Watercourse
- Waterbody

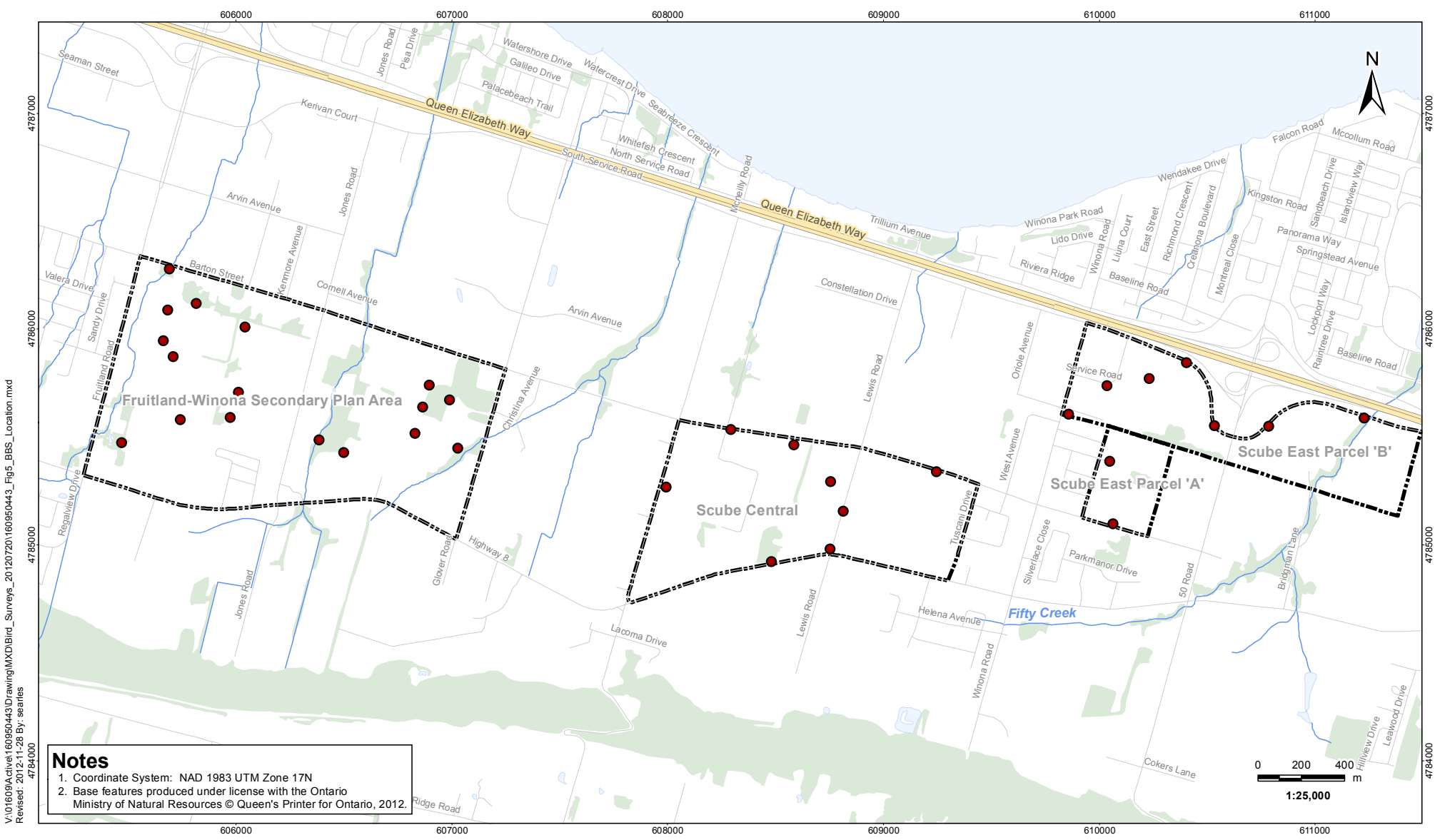
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 SAR Surveys

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Figure No.  
 4

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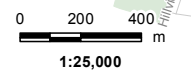
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**Bobolink & Eastern Meadowlark Survey Location**



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**Legend**

- Breeding Bird Survey Location
- Study Area
- Road
- Highway
- Watercourse
- Waterbody
- Woodlot

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SAR Surveys

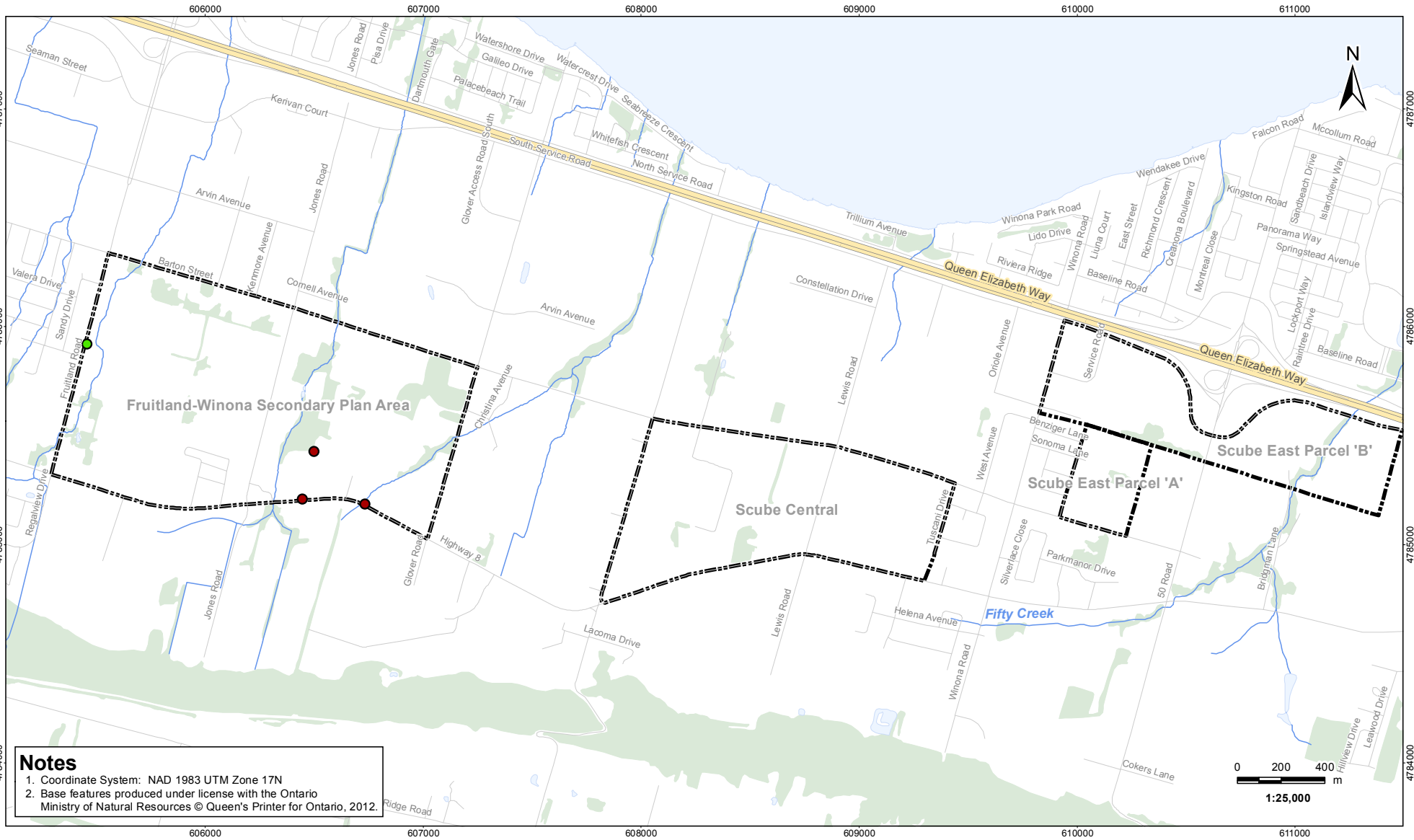
Figure No.

5

Title

**Breeding Bird  
Survey Locations**

V:\01609\active\160950443\Drawing\MXD\Bird\_Surveys\_20120720\160950443\_Fig6\_CHSW\_CNH\_Sightings.mxd  
 Revised: 2012-11-28 By: searles



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**Legend**

- Common Nighthawk Sighting Location
- Chimney Swift Sighting Location
- Study Area
- Road
- Highway
- Watercourse
- Waterbody
- Woodlot

Client/Project

City of Hamilton  
 SAR Surveys

Figure No.

6

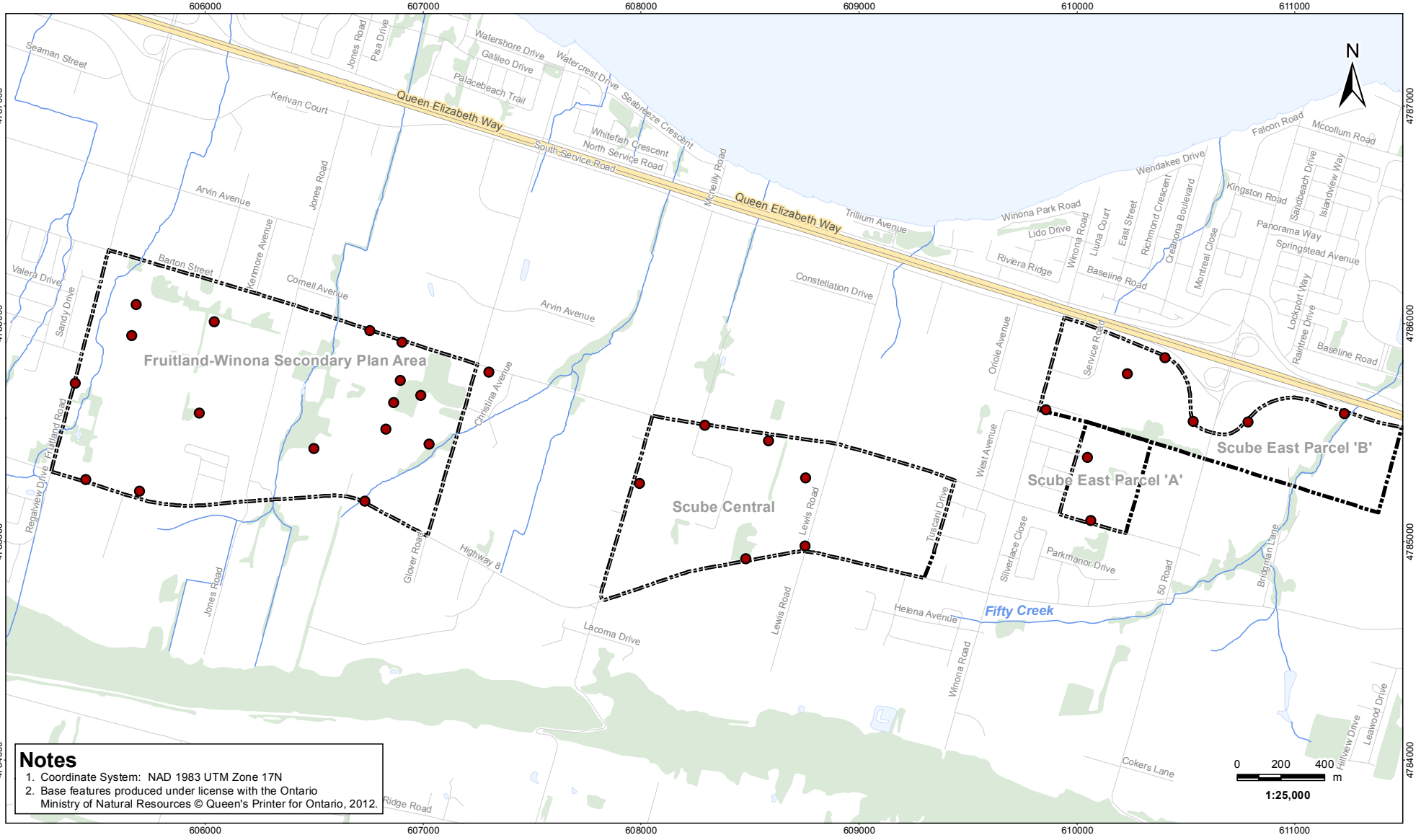
Title

**Chimney Swift &  
 Common Nighthawk  
 Sighting Location**

November 2012  
 160950443



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Revised: 2012-11-28 By: searles



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**Legend**

- Barn Swallow Sighting Location
- Study Area
- Road
- Highway
- Watercourse
- Waterbody
- Woodlot

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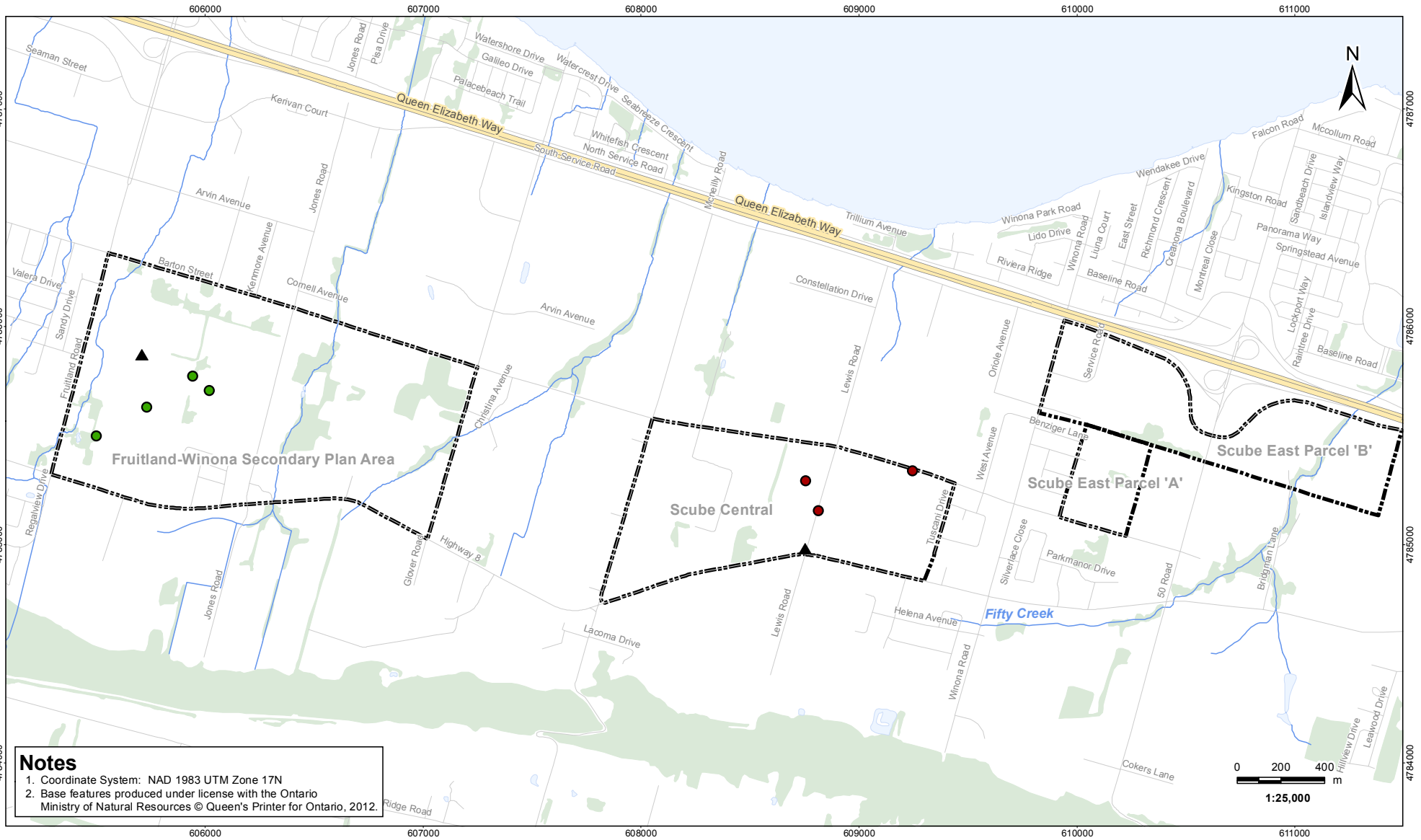
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Figure No.  
 7

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Title  
**Barn Swallow Sighting Location**

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 Revised: 2012-11-28 By: searles



**Notes**  
 1. Coordinate System: NAD 1983 UTM Zone 17N  
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**Legend**

- Bobolink Sighting Location
- ▲ Bobolink Non-Breeding Sighting Location
- Eastern Meadowlark Sighting Location
- Study Area
- Road
- Highway
- Watercourse
- Waterbody
- Woodlot

Client/Project

City of Hamilton  
 SAR Surveys

Figure No.

8

Title

**Bobolink & Eastern  
 Meadowlark  
 Sighting Location**

## **Appendix B: Tables**

**REPORT ON FOUR AVIAN SPECIES AT RISK AND OTHER BREEDING BIRD SPECIES WITHIN FRUITLAND-WINONA SECONDARY PLAN AREA, SCUBE CENTRAL, SCUBE EAST 'A' AND SCUBE EAST 'B' PARCELS**

APPENDIX B: Tables

November 28, 2012

**Table 1: Breeding Bird Species within the Secondary Plan Area**

Common Name	Scientific Name	Habitat Preference	Total # of Stations per Species	Ontario Status	COSSARO	COSEWIC	Population Changes Between Atlases <sup>1</sup>	Area Sensitivity (ha)	Local Status Hamilton
American Robin	<i>Turdus migratorius</i>	Isolated trees/Forest	16	S5B			NS		
Song Sparrow	<i>Melospiza melodia</i>	Shrubs	15	S5B			NS		
Northern Cardinal	<i>Cardinalis cardinalis</i>	Shrubs	15	S5			NS		
American Goldfinch	<i>Carduelis tristis</i>	Shrubs	15	S5B			NS		
Brown-headed Cowbird	<i>Molothrus ater</i>	Shrubs	13	S4B			NS		
Barn Swallow	<i>Hirundo rustica</i>	Grassland	10	S4B	THR	THR-NS	NS		
Gray Catbird	<i>Dumetella carolinensis</i>	Shrubs	9	S4B			NS		
Red-winged Blackbird	<i>Agelaius phoeniceus</i>	Grassland	9	S5			NS		
Mourning Dove	<i>Zenaida macroura</i>	Isolated trees/Forest	8	S5			NS		
European Starling	<i>Sturnus vulgaris</i>	Isolated trees/Forest	8	SNA			NS		
Field Sparrow	<i>Spizella pusilla</i>	Grassland/Shrubs	7	S4B			-17		
Common Grackle	<i>Quiscalus quiscula</i>	Isolated trees	7	S5B			NS		
Blue Jay	<i>Cyanocitta cristata</i>	Forest	6	S5			NS		
Cedar Waxwing	<i>Bombycilla cedrorum</i>	Shrubs	6	S5B			NS		
Willow Flycatcher	<i>Empidonax traillii</i>	Shrubs	5	S5B			NS		
Eastern Kingbird	<i>Tyrannus tyrannus</i>	Shrubs	5	S4B			-8		
American Crow	<i>Corvus brachyrhynchos</i>	Isolated trees/Forest	5	S5B			NS		
Tree Swallow	<i>Tachycineta bicolor</i>	Grassland	5	S4B			NS		
Black-capped Chickadee	<i>Poecile atricapillus</i>	Forest	5	S5			+11		
House Wren	<i>Troglodytes aedon</i>	Shrubs	5	S5B			NS		
Yellow Warbler	<i>Setophaga petechia</i>	Shrubs	5	S5B			NS		
Chipping Sparrow	<i>Spizella passerina</i>	Residential	4	S5B			NS		
Savannah Sparrow	<i>Passerculus sandwichensis</i>	Grassland	4	S4B			NS		
Killdeer	<i>Charadrius vociferus</i>	Grassland	3	S5B, S5N			-11		
Red-eyed Vireo	<i>Vireo olivaceus</i>	Forest	3	S5B			NS		
Common Yellowthroat	<i>Geothlypis trichas</i>	Wetland	3	S5B			NS		

**REPORT ON FOUR AVIAN SPECIES AT RISK AND OTHER BREEDING BIRD SPECIES WITHIN FRUITLAND-WINONA SECONDARY PLAN AREA, SCUBE CENTRAL, SCUBE EAST 'A' AND SCUBE EAST 'B' PARCELS**

APPENDIX B: Tables

November 28, 2012

**Table 1: Breeding Bird Species within the Secondary Plan Area**

Common Name	Scientific Name	Habitat Preference	Total # of Stations per Species	Ontario Status	COSSARO	COSEWIC	Population Changes Between Atlases <sup>1</sup>	Area Sensitivity (ha)	Local Status Hamilton
Northern Rough-winged Swallow	<i>Stelgidopteryx serripennis</i>	Grassland	2	S4B			-11		
Bobolink	<i>Dolichonyx oryzivorus</i>	Grassland	2	S4B	THR	THR-NS	-10	50	
Baltimore Oriole	<i>Icterus galbula</i>	Forest	2	S4B			NS		
House Finch	<i>Carpodacus mexicanus</i>	Residential	2	SNA			>+200		
Cooper's Hawk	<i>Accipiter cooperii</i>	Residential/Forest	1	S4	NAR	NAR	>+200	4-50+	Rare
Red-tailed Hawk	<i>Buteo jamaicensis</i>	Grassland	1	S5	NAR	NAR	NS		
American Kestrel	<i>Falco sparverius</i>	Grassland	1	S5B			-21		Uncommon
American Woodcock	<i>Scolopax minor</i>	Wetland	1	S4B			-29		
Black-billed Cuckoo	<i>Coccyzus erythrophthalmus</i>	Shrubs	1	S5B			NS		Uncommon
Common Nighthawk	<i>Chordeiles minor</i>	Residential	1	S4B	SC	THR	-59		Rare
Chimney Swift	<i>Chaetura pelagica</i>	Aerial forager	1	S4B, S4N	THR	THR	-32		Uncommon
Downy Woodpecker	<i>Picoides pubescens</i>	Forest	1	S5			NS		
Northern Flicker	<i>Colaptes auratus</i>	Forest	1	S4B			-7		
Alder Flycatcher	<i>Empidonax alnorum</i>	Shrubs	1	S5B			NS		Uncommon
Warbling Vireo	<i>Vireo gilvus</i>	Forest	1	S5B			NS		
White-breasted Nuthatch	<i>Sitta carolinensis</i>	Forest	1	S5			NS	10	
Brown Thrasher	<i>Toxostoma rufum</i>	Shrubs	1	S4B			-32		Uncommon
Swamp Sparrow	<i>Melospiza georgiana</i>	Wetland	1	S5B			NS		

<sup>1</sup> Proportional changes in species numbers between the 1st (1981-1985) and 2nd (2001-2005) OBBAs (Cadman *et al.*, 2007)

COSSARO: Committee on the Status of Species at Risk in Ontario

COSEWIC: Committee on the Status of Endangered Wildlife in Canada

S4: Apparently Secure—Uncommon but not rare

S5: Secure—Common, widespread, and abundant in the province

SNA: Not applicable—A conservation status rank is not applicable because the species is not a suitable target for conservation activities

END: Endangered

THR: Threatened

NS: Not Statistically Significant

**REPORT ON FOUR AVIAN SPECIES AT RISK AND OTHER BREEDING BIRD SPECIES WITHIN FRUITLAND-WINONA SECONDARY PLAN AREA, SCUBE CENTRAL, SCUBE EAST 'A' AND SCUBE EAST 'B' PARCELS**

APPENDIX B: Tables

November 28, 2012

**Table 2: Breeding Bird Species within Scube Central, Scube East Parcel 'A' and Scube East Parcel 'B'**

Common Name	Scientific Name	Habitat Preference	Total # of Stations per Species	Ontario Status	COSSARO	COSEWIC	Population Changes Between Atlases <sup>1</sup>	Area Sensitivity (ha)	Local Status Hamilton
American Robin	<i>Turdus migratorius</i>	Isolated trees/Forest	17	S5B			NS		
Northern Cardinal	<i>Cardinalis cardinalis</i>	Shrubs	17	S5			NS		
Red-winged Blackbird	<i>Agelaius phoeniceus</i>	Grassland	17	S5			NS		
American Goldfinch	<i>Carduelis tristis</i>	Shrubs	17	S5B			NS		
Song Sparrow	<i>Melospiza melodia</i>	Shrubs	15	S5B			NS		
Brown-headed Cowbird	<i>Molothrus ater</i>	Shrubs	15	S4B			NS		
Mourning Dove	<i>Zenaida macroura</i>	Isolated trees/Forest	14	S5			NS		
Barn Swallow	<i>Hirundo rustica</i>	Grassland	14	S4B	THR	THR-NS	NS		
European Starling	<i>Sturnus vulgaris</i>	Isolated trees/Forest	14	SNA			NS		
Common Grackle	<i>Quiscalus quiscula</i>	Isolated trees	12	S5B			NS		
Eastern Kingbird	<i>Tyrannus tyrannus</i>	Shrubs	11	S4B			-8		
Field Sparrow	<i>Spizella pusilla</i>	Grassland/Shrubs	10	S4B			-17		
Savannah Sparrow	<i>Passerculus sandwichensis</i>	Grassland	10	S4B			NS		
Gray Catbird	<i>Dumetella carolinensis</i>	Shrubs	9	S4B			NS		
Cedar Waxwing	<i>Bombycilla cedrorum</i>	Shrubs	9	S5B			NS		
House Sparrow	<i>Passer domesticus</i>	Residential	9	SNA			NS		
Blue Jay	<i>Cyanocitta cristata</i>	Forest	8	S5			NS		
Willow Flycatcher	<i>Empidonax traillii</i>	Shrubs	7	S5B			NS		
House Wren	<i>Troglodytes aedon</i>	Shrubs	7	S5B			NS		
Tree Swallow	<i>Tachycineta bicolor</i>	Grassland	6	S4B			+6		
Black-capped Chickadee	<i>Poecile atricapillus</i>	Forest	6	S5			+11		
Yellow Warbler	<i>Setophaga petechia</i>	Shrubs	6	S5B			NS		
Chipping Sparrow	<i>Spizella passerina</i>	Residential	6	S5B			NS		
Killdeer	<i>Charadrius vociferus</i>	Grassland	5	S5B, S5N			-11		
Northern Flicker	<i>Colaptes auratus</i>	Forest	4	S4B			-7		
Bobolink	<i>Dolichonyx oryzivorus</i>	Grassland	4	S4B	THR	THR-NS	-10	50	

**REPORT ON FOUR AVIAN SPECIES AT RISK AND OTHER BREEDING BIRD SPECIES WITHIN FRUITLAND-WINONA SECONDARY PLAN AREA, SCUBE CENTRAL, SCUBE EAST 'A' AND SCUBE EAST 'B' PARCELS**

APPENDIX B: Tables

November 28, 2012

**Table 2: Breeding Bird Species within Scube Central, Scube East Parcel 'A' and Scube East Parcel 'B'**

Common Name	Scientific Name	Habitat Preference	Total # of Stations per Species	Ontario Status	COSSARO	COSEWIC	Population Changes Between Atlases <sup>1</sup>	Area Sensitivity (ha)	Local Status Hamilton
Red-tailed Hawk	<i>Buteo jamaicensis</i>	Grassland	3	S5	NAR	NAR	NS		
Warbling Vireo	<i>Vireo gilvus</i>	Forest	3	S5B			NS		
American Crow	<i>Corvus brachyrhynchos</i>	Isolated trees/Forest	3	S5B			NS		
Northern Mockingbird	<i>Mimus polyglottos</i>	Shrubs	3	S4			>+200		Uncommon
Brown Thrasher	<i>Toxostoma rufum</i>	Shrubs	3	S4B			-32		Uncommon
Common Yellowthroat	<i>Geothlypis trichas</i>	Wetland	3	S5B			NS		
Eastern Meadowlark	<i>Sturnella magna</i>	Grassland	3	S4B	THR	THR-NS	-16	10	
Northern Rough-winged Swallow	<i>Stelgidopteryx serripennis</i>	Grassland	2	S4B			-11		
Carolina Wren	<i>Thryothorus ludovicianus</i>	Shrubs	2	S4			>+200		Rare
Swamp Sparrow	<i>Melospiza georgiana</i>	Wetland	2	S5B			NS		
Baltimore Oriole	<i>Icterus galbula</i>	Forest	2	S4B			NS		
House Finch	<i>Carpodacus mexicanus</i>	Residential	2	SNA			>+200		
American Kestrel	<i>Falco sparverius</i>	Grassland	1	S5B			-21		Uncommon
Downy Woodpecker	<i>Picoides pubescens</i>	Forest	1	S5			NS		
Eastern Phoebe	<i>Sayornis phoebe</i>	Forest	1	S5B			+44		Uncommon
Purple Martin	<i>Progne subis</i>	Aerial forager	1	S4B			-21		Uncommon
White-breasted Nuthatch	<i>Sitta carolinensis</i>	Forest	1	S5			NS	10	
Indigo Bunting	<i>Passerina cyanea</i>	Forest	1	S4B			-14		
Purple Finch	<i>Carpodacus purpureus</i>	Forest	1	S4B			-36		Uncommon

<sup>1</sup> Proportional changes in species numbers between the 1st (1981-1985) and 2nd (2001-2005) OBBA's (Cadman *et al.*, 2007)

COSSARO: Committee on the Status of Species at Risk in Ontario

COSEWIC: Committee on the Status of Endangered Wildlife in Canada

S4: Apparently Secure—Uncommon but not rare

S5: Secure—Common, widespread, and abundant in the province

SNA: Not applicable—A conservation status rank is not applicable because the species is not a suitable target for conservation activities

END: Endangered

THR: Threatened

NS: Not Statistically Significant

**Stantec**

**REPORT ON FOUR AVIAN SPECIES AT RISK AND OTHER BREEDING BIRD SPECIES  
WITHIN FRUITLAND-WINONA SECONDARY PLAN AREA, SCUBE CENTRAL, SCUBE  
EAST 'A' AND SCUBE EAST 'B' PARCELS**

APPENDIX C: Data Sheets

November 28, 2012

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## **Appendix C: Data Sheets**



**Stantec**

**REPORT ON FOUR AVIAN SPECIES AT RISK AND OTHER BREEDING BIRD SPECIES  
WITHIN FRUITLAND-WINONA SECONDARY PLAN AREA, SCUBE CENTRAL, SCUBE  
EAST 'A' AND SCUBE EAST 'B' PARCELS**

APPENDIX C: Data Sheets

November 28, 2012

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**Appendix C1:  
Fruitland-Winona  
Secondary Plan Area**

# Chimney Assessment Form

Page 1

May 17, 2012 1

## Observer Details

Name <i>Don Graham</i>	Phone Number ( )	Email Address	
Street Address	City	Prov.	Postal Code

## Building Details

Street Address <i>660 Barton</i>	City <i>Hamilton</i>	Prov. <i>ON</i>	Postal Code
Owner Name	Phone Number ( )	Email Address	
Type of building (please check one):			
<input type="checkbox"/> House	<input type="checkbox"/> Church	<input checked="" type="checkbox"/> Store	
<input type="checkbox"/> Lowrise Apartment	<input type="checkbox"/> School	<input type="checkbox"/> Factory	
<input type="checkbox"/> Highrise Apartment	<input type="checkbox"/> Hospital	<input type="checkbox"/> Other, please specify: _____	

## Chimney Details

Site Name <i>660 <del>Frontland</del> Barton</i>	Chimney Code <i>H-660-0</i>															
GPS coordinates (DD.dddd): Lat. <i>47 86 287</i> ° N Long. <i>60 56 74</i> ° W	<p><b>NOTE:</b> Chimney codes are created using the following scheme:</p> <p style="text-align: center;">City Initials - Site Initials - Chimney Number</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Eg.</th> <th style="text-align: left;">City Name</th> <th style="text-align: left;">Site Name</th> <th style="text-align: center;">No. of Chimneys</th> <th style="text-align: left;">Code</th> </tr> </thead> <tbody> <tr> <td></td> <td>Port Rowan</td> <td>Public Library</td> <td style="text-align: center;">1</td> <td>PR-PL-1</td> </tr> <tr> <td></td> <td>London</td> <td>141 Wortley</td> <td style="text-align: center;">2</td> <td>LO-141-1 LO-141-2</td> </tr> </tbody> </table>	Eg.	City Name	Site Name	No. of Chimneys	Code		Port Rowan	Public Library	1	PR-PL-1		London	141 Wortley	2	LO-141-1 LO-141-2
Eg.		City Name	Site Name	No. of Chimneys	Code											
	Port Rowan	Public Library	1	PR-PL-1												
	London	141 Wortley	2	LO-141-1 LO-141-2												
Number of years active (if known):	No chimney															
Chimney material (please check one):																
<input type="checkbox"/> Brick <input type="checkbox"/> Stucco <input type="checkbox"/> Concrete <input type="checkbox"/> Stone <input type="checkbox"/> Other, please specify: _____																
If the chimney is modified (cap, liner, etc.), please check the appropriate modification:																
<input type="checkbox"/> Cap <input type="checkbox"/> Terra Cotta Liner <input type="checkbox"/> Animal Guard <input type="checkbox"/> Spark Protector <input type="checkbox"/> Metal Liner <input type="checkbox"/> Other, please specify: _____																
Surrounding habitat (please check one):																
<input type="checkbox"/> Residential <input type="checkbox"/> Industrial <input checked="" type="checkbox"/> Commercial <input type="checkbox"/> Natural <input type="checkbox"/> Other, please specify: _____																
Please select the <b>SHAPE</b> of your chimney and provide the appropriate estimated measurements:																
<input type="checkbox"/> Round                      →    Diameter (cm): _____	<p><b>NOTE:</b> Measurements can sometimes be estimated by counting bricks. Standard bricks have the following measurements: <b>20cm x 9cm x 6cm (L x W x H)</b></p>															
<input type="checkbox"/> Square                      →    Width (cm): _____																
<input type="checkbox"/> Rectangular                →    Width (cm): _____      Length (cm): _____																

# Chimney Assessment Form

Page 2

Chimney height above roofline (m):	Number of Flues:	Colour of Chimney:
Total Chimney Height (m) = _____ × 3 m + _____ = _____ m <small>Number of stories in building (approx height of one story) Height above roofline (m)</small>		
If swifts are present, are they: <input type="checkbox"/> Nesting <input type="checkbox"/> Roosting <input type="checkbox"/> Unknown		
Additional Comments:  <p style="text-align: center; font-size: 1.2em;">None seen</p>		

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# Chimney Assessment Form

2

Page 1

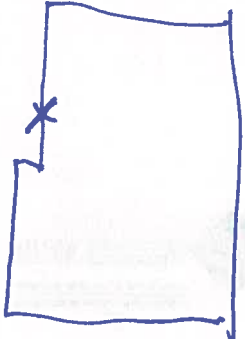
## Observer Details

Name <i>D. Graham</i>	Phone Number ( )	Email Address	
Street Address	City	Prov.	Postal Code

## Building Details

Street Address <i>692 Barton</i>	City <i>Hamilton</i>	Prov. <i>ON</i>	Postal Code
Owner Name	Phone Number ( )	Email Address	
Type of building (please check one):			
<input checked="" type="checkbox"/> House	<input type="checkbox"/> Church	<input type="checkbox"/> Store	
<input type="checkbox"/> Lowrise Apartment	<input type="checkbox"/> School	<input type="checkbox"/> Factory	
<input type="checkbox"/> Highrise Apartment	<input type="checkbox"/> Hospital	<input type="checkbox"/> Other, please specify: _____	

## Chimney Details

Site Name <i>692 Barton</i>	Chimney Code <i>H-692-1</i>															
GPS coordinates (DD.dddd): Lat. <i>4786235</i> ° N Long. <i>605881</i> ° W	<p><b>NOTE:</b> Chimney codes are created using the following scheme:</p> <p style="text-align: center;">City Initials - Site Initials - Chimney Number</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Eg.</th> <th style="text-align: left;">City Name</th> <th style="text-align: left;">Site Name</th> <th style="text-align: center;">No. of Chimneys</th> <th style="text-align: left;">Code</th> </tr> </thead> <tbody> <tr> <td></td> <td>Port Rowan</td> <td>Public Library</td> <td style="text-align: center;">1</td> <td>PR-PL-1</td> </tr> <tr> <td></td> <td>London</td> <td>141 Wortley</td> <td style="text-align: center;">2</td> <td>LO-141-1 LO-141-2</td> </tr> </tbody> </table>	Eg.	City Name	Site Name	No. of Chimneys	Code		Port Rowan	Public Library	1	PR-PL-1		London	141 Wortley	2	LO-141-1 LO-141-2
Eg.		City Name	Site Name	No. of Chimneys	Code											
	Port Rowan	Public Library	1	PR-PL-1												
	London	141 Wortley	2	LO-141-1 LO-141-2												
Number of years active (if known):	<p>If possible, please draw a picture of the chimney location on the building, including the position where the coordinates were taken.</p> <p style="text-align: center;"><i>X GPS N</i></p> 															
Chimney material (please check one):																
<input checked="" type="checkbox"/> Brick <input type="checkbox"/> Stucco <input type="checkbox"/> Concrete <input type="checkbox"/> Stone <input type="checkbox"/> Other, please specify: _____																
If the chimney is modified (cap, liner, etc.), please check the appropriate modification:																
<input checked="" type="checkbox"/> Cap <input type="checkbox"/> Terra Cotta Liner <input type="checkbox"/> Animal Guard <input checked="" type="checkbox"/> Spark Protector <input checked="" type="checkbox"/> Metal Liner <input type="checkbox"/> Other, please specify: _____																
Surrounding habitat (please check one):																
<input checked="" type="checkbox"/> Residential <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input type="checkbox"/> Natural <input type="checkbox"/> Other, please specify: <i>limited to roadway</i>	<p>Please select the <b>SHAPE</b> of your chimney and provide the appropriate estimated measurements:</p> <p><input type="checkbox"/> Round → Diameter (cm): _____</p> <p><input checked="" type="checkbox"/> Square → Width (cm): <i>40</i></p> <p><input type="checkbox"/> Rectangular → Width (cm): _____ Length (cm): _____</p>															
<p><b>NOTE:</b> Measurements can sometimes be estimated by counting bricks. Standard bricks have the following measurements: <b>20cm x 9cm x 6cm (L x W x H)</b></p>																

# Chimney Assessment Form

Page 2

2

Chimney height above roofline (m):	2 m	Number of Flues:	1	Colour of Chimney:	Brown			
Total Chimney Height (m)	=	1	× 3 m	+	2 m	=	5 m	m
		Number of stories in building	(approx height of one story)		Height above roofline (m)			
If swifts are present, are they: <input type="checkbox"/> Nesting <input type="checkbox"/> Roosting <input type="checkbox"/> Unknown								
Additional Comments:  <p style="text-align: center;">None seen</p>								

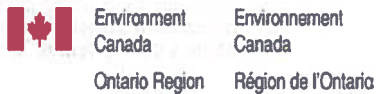
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# Chimney Assessment Form

Page 1

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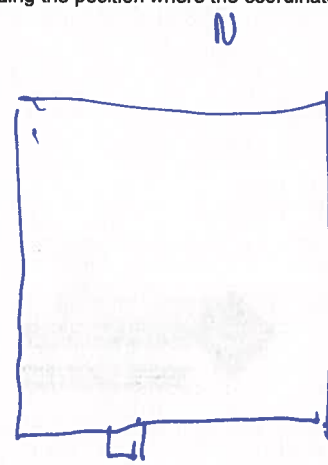
## Observer Details

Name <u>D. Graham</u>	Phone Number ( )	Email Address		
Street Address	City	Prov.	Postal Code	

## Building Details

Street Address <u>720 Barton</u>	City <u>Hamilton</u>	Prov. <u>ON</u>	Postal Code	
Owner Name	Phone Number ( )	Email Address		
Type of building (please check one):				
<input type="checkbox"/> House	<input type="checkbox"/> Church	<input type="checkbox"/> Store		
<input type="checkbox"/> Lowrise Apartment	<input type="checkbox"/> School	<input type="checkbox"/> Factory		
<input type="checkbox"/> Highrise Apartment	<input type="checkbox"/> Hospital	<input type="checkbox"/> Other, please specify: _____		

## Chimney Details

Site Name <u>720 Barton</u>	Chimney Code <u>H-720-1</u>															
GPS coordinates (DD.dddd): Lat. <u>47° 86' 16.9" N</u> Long. <u>60° 6' 10.2" W</u>	<p><b>NOTE:</b> Chimney codes are created using the following scheme:</p> <p style="text-align: center;">City Initials - Site Initials - Chimney Number</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Eg.</th> <th style="text-align: left;">City Name</th> <th style="text-align: left;">Site Name</th> <th style="text-align: center;">No. of Chimneys</th> <th style="text-align: left;">Code</th> </tr> </thead> <tbody> <tr> <td></td> <td>Port Rowan</td> <td>Public Library</td> <td style="text-align: center;">1</td> <td>PR-PL-1</td> </tr> <tr> <td></td> <td>London</td> <td>141 Wortley</td> <td style="text-align: center;">2</td> <td>LO-141-1 LO-141-2</td> </tr> </tbody> </table>	Eg.	City Name	Site Name	No. of Chimneys	Code		Port Rowan	Public Library	1	PR-PL-1		London	141 Wortley	2	LO-141-1 LO-141-2
Eg.		City Name	Site Name	No. of Chimneys	Code											
	Port Rowan	Public Library	1	PR-PL-1												
	London	141 Wortley	2	LO-141-1 LO-141-2												
Number of years active (if known):	<p>If possible, please draw a picture of the chimney location on the building, including the position where the coordinates were taken.</p> <div style="text-align: center; margin-top: 10px;">  </div>															
Chimney material (please check one):																
<input checked="" type="checkbox"/> Brick <input type="checkbox"/> Stucco <input type="checkbox"/> Concrete <input type="checkbox"/> Stone <input type="checkbox"/> Other, please specify: _____																
<p>If the chimney is modified (cap, liner, etc.), please check the appropriate modification:</p> <input checked="" type="checkbox"/> Cap <input type="checkbox"/> Terra Cotta Liner <input type="checkbox"/> Animal Guard <input type="checkbox"/> Spark Protector <input checked="" type="checkbox"/> Metal Liner <input type="checkbox"/> Other, please specify: _____	X															
<p>Surrounding habitat (please check one):</p> <input checked="" type="checkbox"/> Residential <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input type="checkbox"/> Natural <input type="checkbox"/> Other, please specify: _____																
<p>Please select the <b>SHAPE</b> of your chimney and provide the appropriate estimated measurements:</p> <input type="checkbox"/> Round      → Diameter (cm): _____ <input checked="" type="checkbox"/> Square      → Width (cm): <u>40</u> <input type="checkbox"/> Rectangular      → Width (cm): _____ Length (cm): _____																
<p><b>NOTE:</b> Measurements can sometimes be estimated by counting bricks. Standard bricks have the following measurements: <b>20cm x 9cm x 6cm (L x W x H)</b></p>																

# Chimney Assessment Form

Page 2

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Chimney height above roofline (m):	1	Number of Flues:	1	Colour of Chimney:	brown			
Total Chimney Height (m)	=	2	× 3 m	+	1	=	7	m
		Number of stories in building	(approx height of one story)		Height above roofline (m)			
<b>If swifts are present, are they:</b> <input type="checkbox"/> Nesting <input type="checkbox"/> Roosting <input type="checkbox"/> Unknown								
<b>Additional Comments:</b> <p style="text-align: center;">None seen</p>								

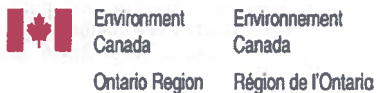
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# Chimney Assessment Form

Page 1

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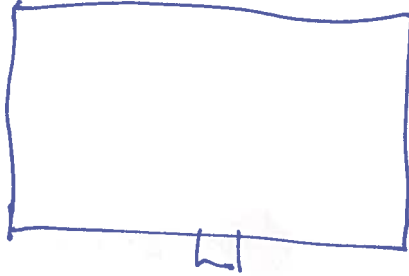
## Observer Details

Name <u>D. Graham</u>	Phone Number ( )	Email Address		
Street Address	City	Prov.	Postal Code	

## Building Details

Street Address <u>748 Barton</u>	City <u>Hamilton</u>	Prov. <u>ON</u>	Postal Code	
Owner Name	Phone Number ( )	Email Address		
Type of building (please check one):				
<input checked="" type="checkbox"/> House	<input type="checkbox"/> Church	<input type="checkbox"/> Store		
<input type="checkbox"/> Lowrise Apartment	<input type="checkbox"/> School	<input type="checkbox"/> Factory		
<input type="checkbox"/> Highrise Apartment	<input type="checkbox"/> Hospital	<input type="checkbox"/> Other, please specify: _____		

## Chimney Details

Site Name <u>748 Barton</u>	Chimney Code <u>H-748-1</u>															
GPS coordinates (DD.dddd): Lat. <u>111</u> ° N Long. <u>297</u> ° W	<p><b>NOTE:</b> Chimney codes are created using the following scheme:</p> <p style="text-align: center;">City Initials - Site Initials - Chimney Number</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Eg.</th> <th style="text-align: left;">City Name</th> <th style="text-align: left;">Site Name</th> <th style="text-align: center;">No. of Chimneys</th> <th style="text-align: left;">Code</th> </tr> </thead> <tbody> <tr> <td></td> <td>Port Rowan</td> <td>Public Library</td> <td style="text-align: center;">1</td> <td>PR-PL-1</td> </tr> <tr> <td></td> <td>London</td> <td>141 Wortley</td> <td style="text-align: center;">2</td> <td>LO-141-1 LO-141-2</td> </tr> </tbody> </table>	Eg.	City Name	Site Name	No. of Chimneys	Code		Port Rowan	Public Library	1	PR-PL-1		London	141 Wortley	2	LO-141-1 LO-141-2
Eg.		City Name	Site Name	No. of Chimneys	Code											
	Port Rowan	Public Library	1	PR-PL-1												
	London	141 Wortley	2	LO-141-1 LO-141-2												
Number of years active (if known):	<p>If possible, please draw a picture of the chimney location on the building, including the position where the coordinates were taken.</p> <p style="text-align: center; font-size: 2em;">X      N</p> 															
Chimney material (please check one):																
<input checked="" type="checkbox"/> Brick <input type="checkbox"/> Stucco <input type="checkbox"/> Concrete <input type="checkbox"/> Stone <input type="checkbox"/> Other, please specify: _____																
If the chimney is modified (cap, liner, etc.), please check the appropriate modification:																
<input type="checkbox"/> Cap <input checked="" type="checkbox"/> Terra Cotta Liner <input type="checkbox"/> Animal Guard <input checked="" type="checkbox"/> Spark Protector <input type="checkbox"/> Metal Liner <input type="checkbox"/> Other, please specify: _____																
Surrounding habitat (please check one):																
<input checked="" type="checkbox"/> Residential <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input type="checkbox"/> Natural <input type="checkbox"/> Other, please specify: _____																
Please select the <b>SHAPE</b> of your chimney and provide the appropriate estimated measurements:																
<input type="checkbox"/> Round                      → Diameter (cm): _____ <input type="checkbox"/> Square                      → Width (cm): _____ <input checked="" type="checkbox"/> Rectangular              → Width (cm): <u>60</u> Length (cm): <u>217</u>																
<p><b>NOTE:</b> Measurements can sometimes be estimated by counting bricks. Standard bricks have the following measurements: 20cm x 9cm x 6cm (L x W x H)</p>																



# Chimney Assessment Form

Page 2

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Chimney height above roofline (m):	<u>1</u>	Number of Flues:	<u>1</u>	Colour of Chimney:	<u>brown</u>			
Total Chimney Height (m)	=	<u>2</u>	× 3 m	+	<u>1</u>	=	<u>7</u>	m
		Number of stories in building	(approx height of one story)		Height above roofline (m)			
If swifts are present, are they: <input type="checkbox"/> Nesting <input type="checkbox"/> Roosting <input type="checkbox"/> Unknown								
Additional Comments: <p style="text-align: center;"><u>None seen.</u></p>								

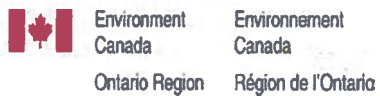
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# Chimney Assessment Form

Page 1

5

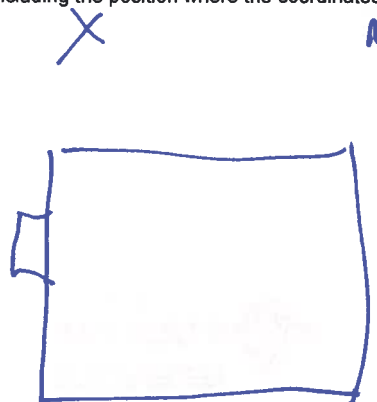
## Observer Details

Name <b>D. Graham</b>	Phone Number ( )	Email Address
Street Address	City	Prov.      Postal Code

## Building Details

Street Address <b>789 Barton</b>	City <b>Ham. Han</b>	Prov. <b>ON</b>	Postal Code
Owner Name	Phone Number ( )	Email Address	
Type of building (please check one):			
<input type="checkbox"/> House	<input type="checkbox"/> Church	<input type="checkbox"/> Store	
<input type="checkbox"/> Lowrise Apartment	<input type="checkbox"/> School	<input type="checkbox"/> Factory	
<input type="checkbox"/> Highrise Apartment	<input type="checkbox"/> Hospital	<input type="checkbox"/> Other, please specify: _____	

## Chimney Details

Site Name <b>789 Barton</b>	Chimney Code <b>H-789-1</b>															
GPS coordinates (DD.dddd): Lat. <b>47° 86' 04.335" N</b> Long. <b>60° 6' 52.7" W</b>	<p><b>NOTE:</b> Chimney codes are created using the following scheme:</p> <p style="text-align: center;">City Initials - Site Initials - Chimney Number</p> <table style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Eg.</th> <th>City Name</th> <th>Site Name</th> <th>No. of Chimneys</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td></td> <td>Port Rowan</td> <td>Public Library</td> <td>1</td> <td>PR-PL-1</td> </tr> <tr> <td></td> <td>London</td> <td>141 Wortley</td> <td>2</td> <td>LO-141-1 LO-141-2</td> </tr> </tbody> </table>	Eg.	City Name	Site Name	No. of Chimneys	Code		Port Rowan	Public Library	1	PR-PL-1		London	141 Wortley	2	LO-141-1 LO-141-2
Eg.		City Name	Site Name	No. of Chimneys	Code											
	Port Rowan	Public Library	1	PR-PL-1												
	London	141 Wortley	2	LO-141-1 LO-141-2												
Number of years active (if known):	<p>If possible, please draw a picture of the chimney location on the building, including the position where the coordinates were taken.</p> <div style="text-align: center; margin-top: 20px;">  </div>															
Chimney material (please check one):																
<input checked="" type="checkbox"/> Brick <input type="checkbox"/> Stucco <input type="checkbox"/> Concrete <input type="checkbox"/> Stone <input type="checkbox"/> Other, please specify: _____																
<p>If the chimney is modified (cap, liner, etc.), please check the appropriate modification:</p> <input type="checkbox"/> Cap <input checked="" type="checkbox"/> Terra Cotta Liner <input type="checkbox"/> Animal Guard <input checked="" type="checkbox"/> Spark Protector <input type="checkbox"/> Metal Liner <input type="checkbox"/> Other, please specify: _____																
Surrounding habitat (please check one):																
<input checked="" type="checkbox"/> Residential <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input type="checkbox"/> Natural <input type="checkbox"/> Other, please specify: _____																
<p>Please select the <b>SHAPE</b> of your chimney and provide the appropriate estimated measurements:</p> <input type="checkbox"/> Round      →      Diameter (cm): _____ <input checked="" type="checkbox"/> Square      →      Width (cm): <b>40</b> <input type="checkbox"/> Rectangular      →      Width (cm): _____      Length (cm): _____																
<p><b>NOTE:</b> Measurements can sometimes be estimated by counting bricks. Standard bricks have the following measurements: <b>20cm x 9cm x 6cm (L x W x H)</b></p>																

# Chimney Assessment Form

Page 2

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Chimney height above roofline (m): <u>3</u>	Number of Flues: <u>1</u>	Colour of Chimney: <u>Brown</u>
Total Chimney Height (m) = <u>3</u> × 3 m + <u>3</u> = <u>6</u> m <small>Number of stories in building (approx height of one story) Height above roofline (m)</small>		
If swifts are present, are they: <input type="checkbox"/> Nesting <input type="checkbox"/> Roosting <input type="checkbox"/> Unknown		
Additional Comments:  <p style="text-align: center;"><u>None seen</u></p>		

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# Chimney Assessment Form

Page 1

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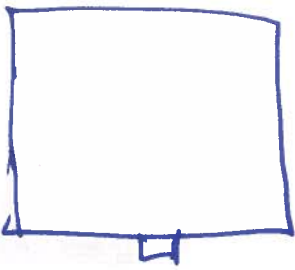
## Observer Details

Name <b>D Graham</b>	Phone Number ( )	Email Address		
Street Address <b>822 Barton</b>	City <b>Hamilton</b>	Prov. <b>ON</b>	Postal Code	

## Building Details

Street Address <b>822 Barton</b>	City <b>Hamilton</b>	Prov. <b>ON</b>	Postal Code	
Owner Name	Phone Number ( )	Email Address		
Type of building (please check one):				
<input checked="" type="checkbox"/> House	<input type="checkbox"/> Church	<input type="checkbox"/> Store		
<input type="checkbox"/> Lowrise Apartment	<input type="checkbox"/> School	<input type="checkbox"/> Factory		
<input type="checkbox"/> Highrise Apartment	<input type="checkbox"/> Hospital	<input type="checkbox"/> Other, please specify: _____		

## Chimney Details

Site Name <b>822 Barton</b>	Chimney Code <b>H-822-1</b>															
GPS coordinates (DD.dddd): Lat. <b>47.85968</b> ° N Long. <b>60.6758</b> ° W	<p><b>NOTE:</b> Chimney codes are created using the following scheme:</p> <p style="text-align: center;">City Initials - Site Initials - Chimney Number</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Eg.</th> <th style="text-align: left;">City Name</th> <th style="text-align: left;">Site Name</th> <th style="text-align: center;">No. of Chimneys</th> <th style="text-align: left;">Code</th> </tr> </thead> <tbody> <tr> <td></td> <td>Port Rowan</td> <td>Public Library</td> <td style="text-align: center;">1</td> <td>PR-PL-1</td> </tr> <tr> <td></td> <td>London</td> <td>141 Wortley</td> <td style="text-align: center;">2</td> <td>LO-141-1 LO-141-2</td> </tr> </tbody> </table>	Eg.	City Name	Site Name	No. of Chimneys	Code		Port Rowan	Public Library	1	PR-PL-1		London	141 Wortley	2	LO-141-1 LO-141-2
Eg.		City Name	Site Name	No. of Chimneys	Code											
	Port Rowan	Public Library	1	PR-PL-1												
	London	141 Wortley	2	LO-141-1 LO-141-2												
Number of years active (if known):	<p>If possible, please draw a picture of the chimney location on the building, including the position where the coordinates were taken.</p> <div style="text-align: center; margin-top: 20px;">  </div>															
Chimney material (please check one):																
<input checked="" type="checkbox"/> Brick <input type="checkbox"/> Stucco <input type="checkbox"/> Concrete <input type="checkbox"/> Stone <input type="checkbox"/> Other, please specify: _____																
<p>If the chimney is modified (cap, liner, etc.), please check the appropriate modification:</p> <input checked="" type="checkbox"/> Cap <input type="checkbox"/> Terra Cotta Liner <input type="checkbox"/> Animal Guard <input type="checkbox"/> Spark Protector <input type="checkbox"/> Metal Liner <input type="checkbox"/> Other, please specify: _____																
<p>Surrounding habitat (please check one):</p> <input checked="" type="checkbox"/> Residential <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input type="checkbox"/> Natural <input type="checkbox"/> Other, please specify: _____																
<p>Please select the <b>SHAPE</b> of your chimney and provide the appropriate estimated measurements:</p> <input type="checkbox"/> Round      → Diameter (cm): _____ <input checked="" type="checkbox"/> Square      → Width (cm): <b>40 x 40</b> <input type="checkbox"/> Rectangular      → Width (cm): _____ Length (cm): _____																
<p><b>NOTE:</b> Measurements can sometimes be estimated by counting bricks. Standard bricks have the following measurements: <b>20cm x 9cm x 6cm (L x W x H)</b></p>																

# Chimney Assessment Form

Page 2

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Chimney height above roofline (m):	0.5	Number of Flues:	1	Colour of Chimney:	Brown			
Total Chimney Height (m)	=	<u>2</u>	× 3 m	+	<u>0.5</u>	=	<u>6.5</u>	m
		Number of stories in building	(approx height of one story)		Height above roofline (m)			
If swifts are present, are they: <input type="checkbox"/> Nesting <input type="checkbox"/> Roosting <input type="checkbox"/> Unknown								
Additional Comments: None seen. However several Barn Swallows observed flying in & out of wooden garages, behaviour which suggests nesting.								

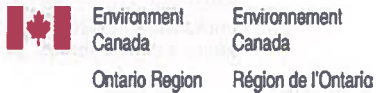
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# Chimney Assessment Form

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## Observer Details

Name <u>D. Graham</u>	Phone Number ( )	Email Address		
Street Address	City	Prov.	Postal Code	

## Building Details

Street Address <u>844 Barton</u>	City <u>Hamilton</u>	Prov. <u>ON</u>	Postal Code
Owner Name	Phone Number ( )	Email Address	
Type of building (please check one):			
<input checked="" type="checkbox"/> House	<input type="checkbox"/> Church	<input type="checkbox"/> Store	
<input type="checkbox"/> Lowrise Apartment	<input type="checkbox"/> School	<input type="checkbox"/> Factory	
<input type="checkbox"/> Highrise Apartment	<input type="checkbox"/> Hospital	<input type="checkbox"/> Other, please specify: _____	

## Chimney Details

Site Name <u>844 Barton</u>	Chimney Code <u>H-844-1</u>															
GPS coordinates (DD.dddd): Lat. <u>47.85915</u> ° N Long. <u>60.6904</u> ° W	<b>NOTE:</b> Chimney codes are created using the following scheme:  City Initials - Site Initials - Chimney Number  <table style="font-size: small;"> <thead> <tr> <th>Eg.</th> <th>City Name</th> <th>Site Name</th> <th>No. of Chimneys</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td></td> <td>Port Rowan</td> <td>Public Library</td> <td>1</td> <td>PR-PL-1</td> </tr> <tr> <td></td> <td>London</td> <td>141 Wortley</td> <td>2</td> <td>LO-141-1 LO-141-2</td> </tr> </tbody> </table>	Eg.	City Name	Site Name	No. of Chimneys	Code		Port Rowan	Public Library	1	PR-PL-1		London	141 Wortley	2	LO-141-1 LO-141-2
Eg.		City Name	Site Name	No. of Chimneys	Code											
	Port Rowan	Public Library	1	PR-PL-1												
	London	141 Wortley	2	LO-141-1 LO-141-2												
Number of years active (if known):	If possible, please draw a picture of the chimney location on the building, including the position where the coordinates were taken.															
Chimney material (please check one): <input type="checkbox"/> Brick <input type="checkbox"/> Stucco <input type="checkbox"/> Concrete <input type="checkbox"/> Stone <input type="checkbox"/> Other, please specify: _____																
If the chimney is modified (cap, liner, etc.), please check the appropriate modification: <input checked="" type="checkbox"/> Cap <input type="checkbox"/> Terra Cotta Liner <input type="checkbox"/> Animal Guard <input type="checkbox"/> Spark Protector <input checked="" type="checkbox"/> Metal Liner <input type="checkbox"/> Other, please specify: _____																
Surrounding habitat (please check one): <input type="checkbox"/> Residential <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input type="checkbox"/> Natural <input checked="" type="checkbox"/> Other, please specify: <u>rural/residential</u>																
Please select the <b>SHAPE</b> of your chimney and provide the appropriate estimated measurements:																
<input type="checkbox"/> Round                      → Diameter (cm): _____ <input type="checkbox"/> Square                      → Width (cm): _____ <input checked="" type="checkbox"/> Rectangular                      → Width (cm): <u>40</u> Length (cm): <u>80</u>	<b>NOTE:</b> Measurements can sometimes be estimated by counting bricks. Standard bricks have the following measurements: <b>20cm x 9cm x 6cm (L x W x H)</b>															

# Chimney Assessment Form

Page 2

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Chimney height above roofline (m): <u>1</u>	Number of Flues: <u>2</u>	Colour of Chimney: <u>Black</u>
Total Chimney Height (m) = <u>2</u> × 3 m + <u>1</u> = <u>7</u> m <small>Number of stories in building (approx height of one story) Height above roofline (m)</small>		
If swifts are present, are they: <input type="checkbox"/> Nesting <input type="checkbox"/> Roosting <input type="checkbox"/> Unknown		
Additional Comments: <p style="text-align: center;"><u>None seen</u></p> <p style="text-align: center;">At least 2 Barn Swallow seen here                  on potential nest sites @ 832 Barton <del>St</del> exists.                  (barn, garage)</p>		

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Environnement Canada  
Ontario Region Région de l'Ontario



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# Chimney Assessment Form

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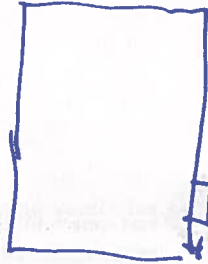
## Observer Details

Name <u>D. Graham</u>	Phone Number ( )	Email Address	
Street Address <u>Barton</u>	City	Prov. <u>ON</u>	Postal Code

## Building Details

Street Address <u>Barton</u>	City <u>Hamilton</u>	Prov. <u>ON</u>	Postal Code
Owner Name	Phone Number ( )	Email Address	
Type of building (please check one):			
<input checked="" type="checkbox"/> House	<input type="checkbox"/> Church	<input type="checkbox"/> Store	
<input type="checkbox"/> Lowrise Apartment	<input type="checkbox"/> School	<input type="checkbox"/> Factory	
<input type="checkbox"/> Highrise Apartment	<input type="checkbox"/> Hospital	<input type="checkbox"/> Other, please specify: _____	

## Chimney Details

Site Name <u>884 Barton</u>	Chimney Code <u>H-884 -1</u>															
GPS coordinates (DD.dddd): Lat. <u>47.85821</u> ° N Long. <u>6.07206</u> ° W	<p><b>NOTE:</b> Chimney codes are created using the following scheme:</p> <p style="text-align: center;">City Initials - Site Initials - Chimney Number</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Eg.</th> <th style="text-align: left;">City Name</th> <th style="text-align: left;">Site Name</th> <th style="text-align: center;">No. of Chimneys</th> <th style="text-align: left;">Code</th> </tr> </thead> <tbody> <tr> <td></td> <td>Port Rowan</td> <td>Public Library</td> <td style="text-align: center;">1</td> <td>PR-PL-1</td> </tr> <tr> <td></td> <td>London</td> <td>141 Wortley</td> <td style="text-align: center;">2</td> <td>LO-141-1 LO-141-2</td> </tr> </tbody> </table>	Eg.	City Name	Site Name	No. of Chimneys	Code		Port Rowan	Public Library	1	PR-PL-1		London	141 Wortley	2	LO-141-1 LO-141-2
Eg.		City Name	Site Name	No. of Chimneys	Code											
	Port Rowan	Public Library	1	PR-PL-1												
	London	141 Wortley	2	LO-141-1 LO-141-2												
Number of years active (if known):	<p>If possible, please draw a picture of the chimney location on the building, including the position where the coordinates were taken.</p> <p style="text-align: center; color: blue; font-size: 1.5em;">xN</p> 															
Chimney material (please check one):																
<input checked="" type="checkbox"/> Brick <input type="checkbox"/> Stucco <input type="checkbox"/> Concrete <input type="checkbox"/> Stone <input type="checkbox"/> Other, please specify: _____																
If the chimney is modified (cap, liner, etc.), please check the appropriate modification:																
<input checked="" type="checkbox"/> Cap <input type="checkbox"/> Terra Cotta Liner <input type="checkbox"/> Animal Guard <input type="checkbox"/> Spark Protector <input checked="" type="checkbox"/> Metal Liner <input type="checkbox"/> Other, please specify: _____																
Surrounding habitat (please check one):																
<input checked="" type="checkbox"/> Residential <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input type="checkbox"/> Natural <input type="checkbox"/> Other, please specify: _____																
Please select the <b>SHAPE</b> of your chimney and provide the appropriate estimated measurements:																
<input type="checkbox"/> Round                      → Diameter (cm): _____ <input checked="" type="checkbox"/> Square                      → Width (cm): <u>40 x 40</u> <input type="checkbox"/> Rectangular                      → Width (cm): _____ Length (cm): _____																
<p><b>NOTE:</b> Measurements can sometimes be estimated by counting bricks. Standard bricks have the following measurements: <b>20cm x 9cm x 6cm (L x W x H)</b></p>																



# Chimney Assessment Form

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Chimney height above roofline (m):	<u>3</u>	Number of Flues:	<u>1</u>	Colour of Chimney:	<u>Brown</u>				
Total Chimney Height (m)	=	<u>10</u>	×	<u>3 m</u>	+	<u>3</u>	=	<u>6</u>	m
		Number of stories in building		(approx height of one story)		Height above roofline (m)			
If swifts are present, are they: <input type="checkbox"/> Nesting <input type="checkbox"/> Roosting <input type="checkbox"/> Unknown									
Additional Comments: <u>None seen</u>									

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Environnement Canada  
Ontario Region Région de l'Ontario



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# Chimney Assessment Form

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## Observer Details

Name <b>D. Graham</b>	Phone Number ( )	Email Address		
Street Address	City	Prov.	Postal Code	

## Building Details

Street Address <b>Barton</b>	City <b>Hamilton</b>	Prov. <b>ON</b>	Postal Code	
Owner Name	Phone Number ( )	Email Address		
Type of building (please check one):				
<input type="checkbox"/> House	<input checked="" type="checkbox"/> Church	<input type="checkbox"/> Store		
<input type="checkbox"/> Lowrise Apartment	<input type="checkbox"/> School	<input type="checkbox"/> Factory		
<input type="checkbox"/> Highrise Apartment	<input type="checkbox"/> Hospital	<input type="checkbox"/> Other, please specify: _____		

## Chimney Details

Site Name	Chimney Code <b>H-</b>															
GPS coordinates (DD.dddd): Lat. <b>4785777</b> ° N Long. <b>607304</b> ° W	<p><b>NOTE:</b> Chimney codes are created using the following scheme:</p> <p style="text-align: center;">City Initials - Site Initials - Chimney Number</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Eg.</th> <th style="text-align: left;">City Name</th> <th style="text-align: left;">Site Name</th> <th style="text-align: center;">No. of Chimneys</th> <th style="text-align: left;">Code</th> </tr> </thead> <tbody> <tr> <td></td> <td>Port Rowan</td> <td>Public Library</td> <td style="text-align: center;">1</td> <td>PR-PL-1</td> </tr> <tr> <td></td> <td>London</td> <td>141 Wortley</td> <td style="text-align: center;">2</td> <td>LO-141-1 LO-141-2</td> </tr> </tbody> </table>	Eg.	City Name	Site Name	No. of Chimneys	Code		Port Rowan	Public Library	1	PR-PL-1		London	141 Wortley	2	LO-141-1 LO-141-2
Eg.		City Name	Site Name	No. of Chimneys	Code											
	Port Rowan	Public Library	1	PR-PL-1												
	London	141 Wortley	2	LO-141-1 LO-141-2												
Number of years active (if known):	<p>If possible, please draw a picture of the chimney location on the building, including the position where the coordinates were taken.</p>															
Chimney material (please check one):																
<input checked="" type="checkbox"/> Brick <input type="checkbox"/> Stucco <input type="checkbox"/> Concrete <input type="checkbox"/> Stone <input type="checkbox"/> Other, please specify: _____																
If the chimney is modified (cap, liner, etc.), please check the appropriate modification:																
<input type="checkbox"/> Cap <input checked="" type="checkbox"/> Terra Cotta Liner <input checked="" type="checkbox"/> Animal Guard <input checked="" type="checkbox"/> Spark Protector <input type="checkbox"/> Metal Liner <input type="checkbox"/> Other, please specify: _____																
Surrounding habitat (please check one):																
<input checked="" type="checkbox"/> Residential <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input type="checkbox"/> Natural <input type="checkbox"/> Other, please specify: _____																
Please select the <b>SHAPE</b> of your chimney and provide the appropriate estimated measurements:																
<input type="checkbox"/> Round      →      Diameter (cm): _____ <input type="checkbox"/> Square      →      Width (cm): _____ <input checked="" type="checkbox"/> Rectangular      →      Width (cm): <b>90</b> Length (cm): <b>270</b>																
<p><b>NOTE:</b> Measurements can sometimes be estimated by counting bricks. Standard bricks have the following measurements: 20cm x 9cm x 6cm (L x W x H)</p>																

# Chimney Assessment Form

Page 2

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Chimney height above roofline (m): <u>2</u>	Number of Flues: <u>1</u>	Colour of Chimney: <u>Tan</u>
Total Chimney Height (m) = <u>2</u> × 3 m + <u>2</u> = <u>8</u> m <small>Number of stories in building (approx height of one story) Height above roofline (m)</small>		
If swifts are present, are they: <input type="checkbox"/> Nesting <input type="checkbox"/> Roosting <input type="checkbox"/> Unknown		
Additional Comments: <p style="text-align: center;"><u>None seen.</u></p> <p><u>1 Barn Swallow nesting on east side of church under eaves. 2<sup>nd</sup> pair present.</u></p>		

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# Chimney Assessment Form

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Page 1

## Observer Details

Name <i>Don Graham</i>	Phone Number ( )	Email Address	
Street Address	City	Prov.	Postal Code

## Building Details

Street Address <i>26 Glover</i>	City <i>Hampton</i>	Prov. <i>ON</i>	Postal Code
Owner Name	Phone Number ( )	Email Address	

Type of building (please check one):

<input checked="" type="checkbox"/> House	<input type="checkbox"/> Church	<input type="checkbox"/> Store
<input type="checkbox"/> Lowrise Apartment	<input type="checkbox"/> School	<input type="checkbox"/> Factory
<input type="checkbox"/> Highrise Apartment	<input type="checkbox"/> Hospital	<input type="checkbox"/> Other, please specify: _____

## Chimney Details

Site Name <i>26 Glover</i>	Chimney Code <i>H-26-1</i>															
GPS coordinates (DD.dddd): Lat. <i>47° 55' 63" N</i> Long. <i>60° 7' 173" W</i>	<p><b>NOTE:</b> Chimney codes are created using the following scheme:</p> <p style="text-align: center;">City Initials - Site Initials - Chimney Number</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Eg.</th> <th style="text-align: left;">City Name</th> <th style="text-align: left;">Site Name</th> <th style="text-align: center;">No. of Chimneys</th> <th style="text-align: left;">Code</th> </tr> </thead> <tbody> <tr> <td></td> <td>Port Rowan</td> <td>Public Library</td> <td style="text-align: center;">1</td> <td>PR-PL-1</td> </tr> <tr> <td></td> <td>London</td> <td>141 Wortley</td> <td style="text-align: center;">2</td> <td>LO-141-1 LO-141-2</td> </tr> </tbody> </table>	Eg.	City Name	Site Name	No. of Chimneys	Code		Port Rowan	Public Library	1	PR-PL-1		London	141 Wortley	2	LO-141-1 LO-141-2
Eg.		City Name	Site Name	No. of Chimneys	Code											
	Port Rowan	Public Library	1	PR-PL-1												
	London	141 Wortley	2	LO-141-1 LO-141-2												
Number of years active (if known):	<p>If possible, please draw a picture of the chimney location on the building, including the position where the coordinates were taken.</p> <div style="text-align: center; margin-top: 20px;"> </div>															
Chimney material (please check one): <input checked="" type="checkbox"/> Brick <input type="checkbox"/> Stucco <input type="checkbox"/> Concrete <input type="checkbox"/> Stone <input type="checkbox"/> Other, please specify: _____																
If the chimney is modified (cap, liner, etc.), please check the appropriate modification: <input checked="" type="checkbox"/> Cap <input checked="" type="checkbox"/> Terra Cotta Liner <input type="checkbox"/> Animal Guard <input checked="" type="checkbox"/> Spark Protector <input type="checkbox"/> Metal Liner <input type="checkbox"/> Other, please specify: _____																
Surrounding habitat (please check one): <input checked="" type="checkbox"/> Residential <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input type="checkbox"/> Natural <input type="checkbox"/> Other, please specify: _____																
<p>Please select the <b>SHAPE</b> of your chimney and provide the appropriate estimated measurements:</p> <table style="width: 100%;"> <tr> <td><input type="checkbox"/> Round</td> <td>→ Diameter (cm): _____</td> </tr> <tr> <td><input checked="" type="checkbox"/> Square</td> <td>→ Width (cm): <u>40</u></td> </tr> <tr> <td><input type="checkbox"/> Rectangular</td> <td>→ Width (cm): _____ Length (cm): _____</td> </tr> </table> <p style="text-align: right; font-size: small;"><b>NOTE:</b> Measurements can sometimes be estimated by counting bricks. Standard bricks have the following measurements: <b>20cm x 9cm x 6cm (L x W x H)</b></p>		<input type="checkbox"/> Round	→ Diameter (cm): _____	<input checked="" type="checkbox"/> Square	→ Width (cm): <u>40</u>	<input type="checkbox"/> Rectangular	→ Width (cm): _____ Length (cm): _____									
<input type="checkbox"/> Round	→ Diameter (cm): _____															
<input checked="" type="checkbox"/> Square	→ Width (cm): <u>40</u>															
<input type="checkbox"/> Rectangular	→ Width (cm): _____ Length (cm): _____															

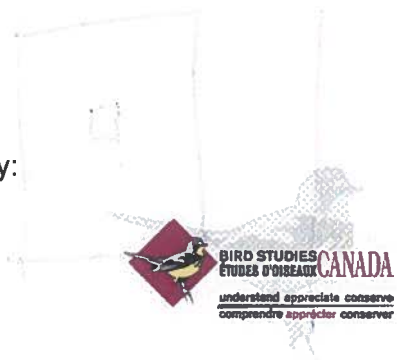
# Chimney Assessment Form

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Chimney height above roofline (m):	<u>2</u>	Number of Flues:	<u>1</u>	Colour of Chimney:	<u>Brown</u>				
Total Chimney Height (m)	=	<u>1.5</u>	×	<u>3 m</u>	+	<u>2</u>	=	<u>6.5</u>	m
		Number of stories in building		(approx height of one story)		Height above roofline (m)			
If swifts are present, are they: <input type="checkbox"/> Nesting <input type="checkbox"/> Roosting <input type="checkbox"/> Unknown									
Additional Comments: <p style="text-align: center;"><u>None seen</u></p>									

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# Chimney Assessment Form

Page 1

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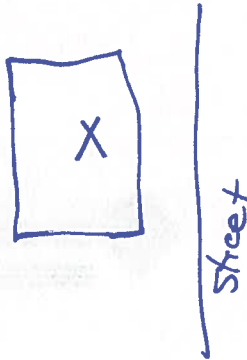
## Observer Details

Name <u>D. Graham</u>	Phone Number ( )	Email Address		
Street Address	City	Prov.	Postal Code	

## Building Details

Street Address <u>239 Glover</u>	City <u>Hamilton</u>	Prov. <u>ON</u>	Postal Code	
Owner Name	Phone Number ( )	Email Address		
Type of building (please check one):				
<input checked="" type="checkbox"/> House	<input type="checkbox"/> Church	<input type="checkbox"/> Store		
<input type="checkbox"/> Lowrise Apartment	<input type="checkbox"/> School	<input type="checkbox"/> Factory		
<input type="checkbox"/> Highrise Apartment	<input type="checkbox"/> Hospital	<input type="checkbox"/> Other, please specify: <u>Art</u>		

## Chimney Details

Site Name <u>239 Glover</u>	Chimney Code <u>H-239-1</u>															
GPS coordinates (DD.dddd): Lat. <u>47.85327</u> ° N Long. <u>60.7101</u> ° W	<p><b>NOTE:</b> Chimney codes are created using the following scheme:</p> <p style="text-align: center;">City Initials - Site Initials - Chimney Number</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Eg.</th> <th style="text-align: left;">City Name</th> <th style="text-align: left;">Site Name</th> <th style="text-align: center;">No. of Chimneys</th> <th style="text-align: left;">Code</th> </tr> </thead> <tbody> <tr> <td></td> <td>Port Rowan</td> <td>Public Library</td> <td style="text-align: center;">1</td> <td>PR-PL-1</td> </tr> <tr> <td></td> <td>London</td> <td>141 Wortley</td> <td style="text-align: center;">2</td> <td>LO-141-1 LO-141-2</td> </tr> </tbody> </table>	Eg.	City Name	Site Name	No. of Chimneys	Code		Port Rowan	Public Library	1	PR-PL-1		London	141 Wortley	2	LO-141-1 LO-141-2
Eg.		City Name	Site Name	No. of Chimneys	Code											
	Port Rowan	Public Library	1	PR-PL-1												
	London	141 Wortley	2	LO-141-1 LO-141-2												
Number of years active (if known):	<p>If possible, please draw a picture of the chimney location on the building, including the position where the coordinates were taken.</p> 															
Chimney material (please check one):																
<input checked="" type="checkbox"/> Brick <input type="checkbox"/> Stucco <input type="checkbox"/> Concrete <input type="checkbox"/> Stone <input type="checkbox"/> Other, please specify:																
If the chimney is modified (cap, liner, etc.), please check the appropriate modification:																
<input type="checkbox"/> Cap <input checked="" type="checkbox"/> Terra Cotta Liner <input type="checkbox"/> Animal Guard <input type="checkbox"/> Spark Protector <input type="checkbox"/> Metal Liner <input type="checkbox"/> Other, please specify:																
Surrounding habitat (please check one):																
<input checked="" type="checkbox"/> Residential <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input type="checkbox"/> Natural <input type="checkbox"/> Other, please specify:																
Please select the <b>SHAPE</b> of your chimney and provide the appropriate estimated measurements:																
<input type="checkbox"/> Round      → Diameter (cm): _____ <input type="checkbox"/> Square      → Width (cm): _____ <input checked="" type="checkbox"/> Rectangular      → Width (cm): <u>40</u> Length (cm): <u>80</u>																
<p><b>NOTE:</b> Measurements can sometimes be estimated by counting bricks. Standard bricks have the following measurements: 20cm x 9cm x 6cm (L x W x H)</p>																

# Chimney Assessment Form

Page 2

Chimney height above roofline (m):	1.5	Number of Flues:	2	Colour of Chimney:	Tan
Total Chimney Height (m)	=	<u>1</u>	× 3 m	+	<u>1.5</u> = <u>4.5</u> m
		Number of stories in building	(approx height of one story)		Height above roofline (m)
If swifts are present, are they: <input type="checkbox"/> Nesting <input type="checkbox"/> Roosting <input type="checkbox"/> Unknown					
Additional Comments: None seen					

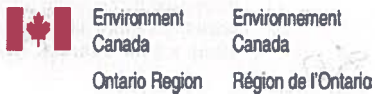
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# Chimney Assessment Form

Page 1

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## Observer Details

Name <i>D. Graham</i>	Phone Number ( )	Email Address	
Street Address	City	Prov.	Postal Code

## Building Details

Street Address <i>Glover</i>	City <i>Hamilton</i>	Prov. <i>ON</i>	Postal Code
Owner Name	Phone Number ( )	Email Address	
Type of building (please check one): <input type="checkbox"/> House <input checked="" type="checkbox"/> Church <input type="checkbox"/> Store <input type="checkbox"/> Lowrise Apartment <input type="checkbox"/> School <input type="checkbox"/> Factory <input type="checkbox"/> Highrise Apartment <input type="checkbox"/> Hospital <input type="checkbox"/> Other, please specify: _____			

*Kingdom Hall of Jehovah Witnesses*

## Chimney Details

Site Name <i>Glover</i>	Chimney Code <i>H - - 0</i>															
GPS coordinates (DD.dddd): Lat. <i>4785169</i> ° N Long. <i>607057</i> ° W	NOTE: Chimney codes are created using the following scheme:  City Initials - Site Initials - Chimney Number  <table style="font-size: 0.8em;"> <tr> <td>Eg.</td> <td><u>City Name</u></td> <td><u>Site Name</u></td> <td><u>No. of Chimneys</u></td> <td><u>Code</u></td> </tr> <tr> <td></td> <td>Port Rowan</td> <td>Public Library</td> <td>1</td> <td>PR-PL-1</td> </tr> <tr> <td></td> <td>London</td> <td>141 Wortley</td> <td>2</td> <td>LO-141-1 LO-141-2</td> </tr> </table>	Eg.	<u>City Name</u>	<u>Site Name</u>	<u>No. of Chimneys</u>	<u>Code</u>		Port Rowan	Public Library	1	PR-PL-1		London	141 Wortley	2	LO-141-1 LO-141-2
Eg.		<u>City Name</u>	<u>Site Name</u>	<u>No. of Chimneys</u>	<u>Code</u>											
	Port Rowan	Public Library	1	PR-PL-1												
	London	141 Wortley	2	LO-141-1 LO-141-2												
Number of years active (if known):	None seen															
Chimney material (please check one): <input type="checkbox"/> Brick <input type="checkbox"/> Stucco <input type="checkbox"/> Concrete <input type="checkbox"/> Stone <input type="checkbox"/> Other, please specify: _____																
If the chimney is modified (cap, liner, etc.), please check the appropriate modification: <input type="checkbox"/> Cap <input type="checkbox"/> Terra Cotta Liner <input type="checkbox"/> Animal Guard <input type="checkbox"/> Spark Protector <input type="checkbox"/> Metal Liner <input type="checkbox"/> Other, please specify: _____																
Surrounding habitat (please check one): <input checked="" type="checkbox"/> Residential <i>of rural</i> <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input type="checkbox"/> Natural <input type="checkbox"/> Other, please specify: _____																
Please select the <b>SHAPE</b> of your chimney and provide the appropriate estimated measurements:																
<input type="checkbox"/> Round      →      Diameter (cm): _____																
<input type="checkbox"/> Square      →      Width (cm): _____																
<input type="checkbox"/> Rectangular      →      Width (cm): _____      Length (cm): _____																
NOTE: Measurements can sometimes be estimated by counting bricks. Standard bricks have the following measurements: <b>20cm x 9cm x 6cm (L x W x H)</b>																



# Chimney Assessment Form

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Chimney height above roofline (m):	Number of Flues:	Colour of Chimney:
$\text{Total Chimney Height (m)} = \frac{\text{Number of stories in building}}{\text{Number of stories in building}} \times 3 \text{ m} + \frac{\text{Height above roofline (m)}}{\text{Height above roofline (m)}} = \text{m}$		
If swifts are present, are they: <input type="checkbox"/> Nesting <input type="checkbox"/> Roosting <input type="checkbox"/> Unknown		
Additional Comments: <p style="text-align: center;">None seen</p>		

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# Chimney Assessment Form

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## Observer Details

Name <u>D. Graham</u>	Phone Number ( )	Email Address		
Street Address	City	Prov.	Postal Code	

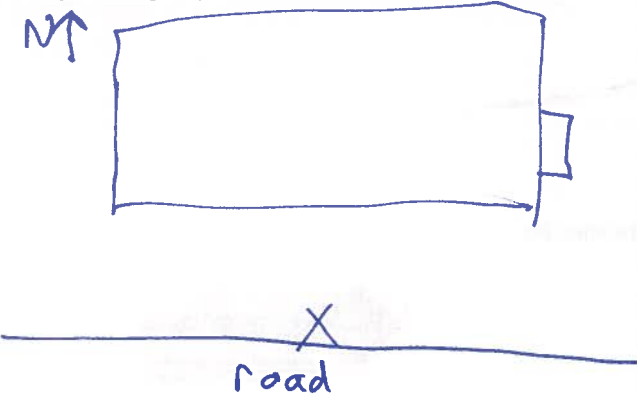
## Building Details

Street Address <u>873 Hwy 8</u>	City <u>Hamilton</u>	Prov. <u>ON</u>	Postal Code	
Owner Name	Phone Number ( )	Email Address		

Type of building (please check one):

<input type="checkbox"/> House	<input type="checkbox"/> Church	<input type="checkbox"/> Store
<input type="checkbox"/> Lowrise Apartment	<input type="checkbox"/> School	<input type="checkbox"/> Factory
<input type="checkbox"/> Highrise Apartment	<input type="checkbox"/> Hospital	<input type="checkbox"/> Other, please specify: _____

## Chimney Details

Site Name <u>873 Hwy 8</u>	Chimney Code <u>H -</u>															
GPS coordinates (DD.dddd): Lat. <u>47.85087</u> ° N Long. <u>60.6915</u> ° W	<p><b>NOTE:</b> Chimney codes are created using the following scheme:</p> <p style="text-align: center;">City Initials - Site Initials - Chimney Number</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Eg.</th> <th style="text-align: left;">City Name</th> <th style="text-align: left;">Site Name</th> <th style="text-align: center;">No. of Chimneys</th> <th style="text-align: left;">Code</th> </tr> </thead> <tbody> <tr> <td></td> <td>Port Rowan</td> <td>Public Library</td> <td style="text-align: center;">1</td> <td>PR-PL-1</td> </tr> <tr> <td></td> <td>London</td> <td>141 Wortley</td> <td style="text-align: center;">2</td> <td>LO-141-1 LO-141-2</td> </tr> </tbody> </table>	Eg.	City Name	Site Name	No. of Chimneys	Code		Port Rowan	Public Library	1	PR-PL-1		London	141 Wortley	2	LO-141-1 LO-141-2
Eg.	City Name	Site Name	No. of Chimneys	Code												
	Port Rowan	Public Library	1	PR-PL-1												
	London	141 Wortley	2	LO-141-1 LO-141-2												
Number of years active (if known):	<p>If possible, please draw a picture of the chimney location on the building, including the position where the coordinates were taken.</p> 															
Chimney material (please check one): <input checked="" type="checkbox"/> Brick <input type="checkbox"/> Stucco <input type="checkbox"/> Concrete <input type="checkbox"/> Stone <input type="checkbox"/> Other, please specify: _____																
If the chimney is modified (cap, liner, etc.), please check the appropriate modification: <input checked="" type="checkbox"/> Cap <input checked="" type="checkbox"/> Terra Cotta Liner <input type="checkbox"/> Animal Guard <input type="checkbox"/> Spark Protector <input type="checkbox"/> Metal Liner <input type="checkbox"/> Other, please specify: _____																
Surrounding habitat (please check one): <input checked="" type="checkbox"/> Residential / <u>Rural</u> <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input type="checkbox"/> Natural <input type="checkbox"/> Other, please specify: _____																
<p>Please select the <b>SHAPE</b> of your chimney and provide the appropriate estimated measurements:</p> <table style="width: 100%;"> <tr> <td><input type="checkbox"/> Round</td> <td>→ Diameter (cm): _____</td> </tr> <tr> <td><input checked="" type="checkbox"/> Square</td> <td>→ Width (cm): _____</td> </tr> <tr> <td><input type="checkbox"/> Rectangular</td> <td>→ Width (cm): <u>40</u>      Length (cm): <u>120</u></td> </tr> </table>		<input type="checkbox"/> Round	→ Diameter (cm): _____	<input checked="" type="checkbox"/> Square	→ Width (cm): _____	<input type="checkbox"/> Rectangular	→ Width (cm): <u>40</u> Length (cm): <u>120</u>									
<input type="checkbox"/> Round	→ Diameter (cm): _____															
<input checked="" type="checkbox"/> Square	→ Width (cm): _____															
<input type="checkbox"/> Rectangular	→ Width (cm): <u>40</u> Length (cm): <u>120</u>															
<p><b>NOTE:</b> Measurements can sometimes be estimated by counting bricks. Standard bricks have the following measurements: 20cm x 9cm x 6cm (L x W x H)</p>																

# Chimney Assessment Form

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Chimney height above roofline (m): <u>2</u>	Number of Flues: <u>2</u>	Colour of Chimney: <u>Brown</u>
Total Chimney Height (m) = <u>1</u> × 3 m + <u>2</u> = <u>5</u> m <small>Number of stories in building (approx height of one story) Height above roofline (m)</small>		
If swifts are present, are they: <input type="checkbox"/> Nesting <input type="checkbox"/> Roosting <input type="checkbox"/> Unknown		
Additional Comments: <u>None seen</u>		

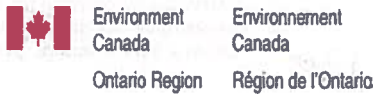
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# Chimney Assessment Form

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## Observer Details

Name <u>D. Graham</u>	Phone Number ( )	Email Address	
Street Address	City	Prov.	Postal Code

## Building Details

Street Address <u>843 Hwy 8</u>	City <u>Man. Han</u>	Prov. <u>ON</u>	Postal Code
Owner Name	Phone Number ( )	Email Address	

Type of building (please check one):

<input checked="" type="checkbox"/> House	<input type="checkbox"/> Church	<input type="checkbox"/> Store
<input type="checkbox"/> Lowrise Apartment	<input type="checkbox"/> School	<input type="checkbox"/> Factory
<input type="checkbox"/> Highrise Apartment	<input type="checkbox"/> Hospital	<input type="checkbox"/> Other, please specify: _____

## Chimney Details

Site Name <u>843 Hwy 8</u>	Chimney Code <u>H-843-1</u>															
GPS coordinates (DD.dddd): Lat. <u>47° 51' 87" N</u> Long. <u>60° 6' 734" W</u>	<p><b>NOTE:</b> Chimney codes are created using the following scheme:</p> <p style="text-align: center;">City Initials - Site Initials - Chimney Number</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Eg.</th> <th style="text-align: left;">City Name</th> <th style="text-align: left;">Site Name</th> <th style="text-align: center;">No. of Chimneys</th> <th style="text-align: left;">Code</th> </tr> </thead> <tbody> <tr> <td></td> <td>Port Rowan</td> <td>Public Library</td> <td style="text-align: center;">1</td> <td>PR-PL-1</td> </tr> <tr> <td></td> <td>London</td> <td>141 Wortley</td> <td style="text-align: center;">2</td> <td>LO-141-1 LO-141-2</td> </tr> </tbody> </table>	Eg.	City Name	Site Name	No. of Chimneys	Code		Port Rowan	Public Library	1	PR-PL-1		London	141 Wortley	2	LO-141-1 LO-141-2
Eg.		City Name	Site Name	No. of Chimneys	Code											
	Port Rowan	Public Library	1	PR-PL-1												
	London	141 Wortley	2	LO-141-1 LO-141-2												
Number of years active (if known):	<p>If possible, please draw a picture of the chimney location on the building, including the position where the coordinates were taken.</p> <div style="text-align: center;"> </div>															
Chimney material (please check one): <input type="checkbox"/> Brick <input type="checkbox"/> Stucco <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Stone <input type="checkbox"/> Other, please specify: _____																
If the chimney is modified (cap, liner, etc.), please check the appropriate modification: <input type="checkbox"/> Cap <input checked="" type="checkbox"/> Terra Cotta Liner <input type="checkbox"/> Animal Guard <input type="checkbox"/> Spark Protector <input type="checkbox"/> Metal Liner <input type="checkbox"/> Other, please specify: _____																
Surrounding habitat (please check one): <input checked="" type="checkbox"/> Residential <u>residential</u> <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input type="checkbox"/> Natural <input type="checkbox"/> Other, please specify: _____	<p>Please select the <b>SHAPE</b> of your chimney and provide the appropriate estimated measurements:</p> <table style="width: 100%;"> <tr> <td><input type="checkbox"/> Round</td> <td>→ Diameter (cm): _____</td> </tr> <tr> <td><input checked="" type="checkbox"/> Square</td> <td>→ Width (cm): <u>40cm</u></td> </tr> <tr> <td><input type="checkbox"/> Rectangular</td> <td>→ Width (cm): _____ Length (cm): _____</td> </tr> </table> <p style="font-size: small;"><b>NOTE:</b> Measurements can sometimes be estimated by counting bricks. Standard bricks have the following measurements: 20cm x 9cm x 6cm (L x W x H)</p>	<input type="checkbox"/> Round	→ Diameter (cm): _____	<input checked="" type="checkbox"/> Square	→ Width (cm): <u>40cm</u>	<input type="checkbox"/> Rectangular	→ Width (cm): _____ Length (cm): _____									
<input type="checkbox"/> Round		→ Diameter (cm): _____														
<input checked="" type="checkbox"/> Square	→ Width (cm): <u>40cm</u>															
<input type="checkbox"/> Rectangular	→ Width (cm): _____ Length (cm): _____															

# Chimney Assessment Form

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Chimney height above roofline (m): <u>2</u>	Number of Flues: <u>1</u>	Colour of Chimney: <u>Gray</u>
Total Chimney Height (m) = <u>2</u> × 3 m + <u>2</u> = <u>8</u> m <small>Number of stories in building (approx height of one story) Height above roofline (m)</small>		
If swifts are present, are they: <input type="checkbox"/> Nesting <input type="checkbox"/> Roosting <input type="checkbox"/> Unknown		
Additional Comments: <u>None seen.</u> <u>BASW seen in area. Potential nest sites in area.</u>		

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# Chimney Assessment Form

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Page 1

## Observer Details

Name <i>D. Graham</i>	Phone Number ( )	Email Address	
Street Address	City	Prov.	Postal Code

## Building Details

Street Address <i>809 Hwy 8</i>	City <i>Hamilton</i>	Prov. <i>ON</i>	Postal Code
Owner Name	Phone Number ( )	Email Address	
Type of building (please check one):			
<input checked="" type="checkbox"/> House	<input type="checkbox"/> Church	<input type="checkbox"/> Store	
<input type="checkbox"/> Lowrise Apartment	<input type="checkbox"/> School	<input type="checkbox"/> Factory	
<input type="checkbox"/> Highrise Apartment	<input type="checkbox"/> Hospital	<input type="checkbox"/> Other, please specify: _____	

## Chimney Details

Site Name <i>809 Hwy 8</i>	Chimney Code <i>H-809</i>															
GPS coordinates (DD.dddd): Lat. <i>43.12</i> ° N Long. <i>79.41</i> ° W	<p><b>NOTE:</b> Chimney codes are created using the following scheme:</p> <p style="text-align: center;">City Initials - Site Initials - Chimney Number</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 25%; text-align: center;"><u>City Name</u></td> <td style="width: 25%; text-align: center;"><u>Site Name</u></td> <td style="width: 15%; text-align: center;"><u>No. of Chimneys</u></td> <td style="width: 20%; text-align: center;"><u>Code</u></td> </tr> <tr> <td>Eg.</td> <td style="text-align: center;">Port Rowan</td> <td style="text-align: center;">Public Library</td> <td style="text-align: center;">1</td> <td style="text-align: center;">PR-PL-1</td> </tr> <tr> <td></td> <td style="text-align: center;">London</td> <td style="text-align: center;">141 Wortley</td> <td style="text-align: center;">2</td> <td style="text-align: center;">LO-141-1 LO-141-2</td> </tr> </table>		<u>City Name</u>	<u>Site Name</u>	<u>No. of Chimneys</u>	<u>Code</u>	Eg.	Port Rowan	Public Library	1	PR-PL-1		London	141 Wortley	2	LO-141-1 LO-141-2
		<u>City Name</u>	<u>Site Name</u>	<u>No. of Chimneys</u>	<u>Code</u>											
Eg.	Port Rowan	Public Library	1	PR-PL-1												
	London	141 Wortley	2	LO-141-1 LO-141-2												
Number of years active (if known):	<p>If possible, please draw a picture of the chimney location on the building, including the position where the coordinates were taken.</p>															
Chimney material (please check one):																
<input checked="" type="checkbox"/> Brick <input type="checkbox"/> Stucco <input type="checkbox"/> Concrete <input type="checkbox"/> Stone <input type="checkbox"/> Other, please specify: _____																
If the chimney is modified (cap, liner, etc.), please check the appropriate modification:																
<input checked="" type="checkbox"/> Cap <input checked="" type="checkbox"/> Terra Cotta Liner <input type="checkbox"/> Animal Guard <input type="checkbox"/> Spark Protector <input type="checkbox"/> Metal Liner <input type="checkbox"/> Other, please specify: _____																
Surrounding habitat (please check one):																
<input checked="" type="checkbox"/> Residential <i>rural</i> <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input type="checkbox"/> Natural <input type="checkbox"/> Other, please specify: _____																
Please select the <b>SHAPE</b> of your chimney and provide the appropriate estimated measurements:																
<input type="checkbox"/> Round → Diameter (cm): _____																
<input type="checkbox"/> Square → Width (cm): _____																
<input checked="" type="checkbox"/> Rectangular → Width (cm): <i>20</i> Length (cm): <i>120</i>																
<p><b>NOTE:</b> Measurements can sometimes be estimated by counting bricks. Standard bricks have the following measurements: 20cm x 9cm x 6cm (L x W x H)</p>																

# Chimney Assessment Form

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Chimney height above roofline (m): <u>3</u>	Number of Flues: <u>2</u>	Colour of Chimney: <u>Brown</u>
Total Chimney Height (m) = <u>1</u> × 3 m + <u>3</u> = <u>6</u> m <small>Number of stories in building (approx height of one story) Height above roofline (m)</small>		
If swifts are present, are they: <input type="checkbox"/> Nesting <input type="checkbox"/> Roosting <input type="checkbox"/> Unknown		
Additional Comments: <u>None seen.</u>		

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Environment Canada  
Environnement Canada  
Ontario Region Région de l'Ontario



McIlwraith  
Field  
Naturalists

# Chimney Assessment Form

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Page 1

## Observer Details

Name <i>D. Graham</i>	Phone Number ( )	Email Address		
Street Address	City	Prov.	Postal Code	

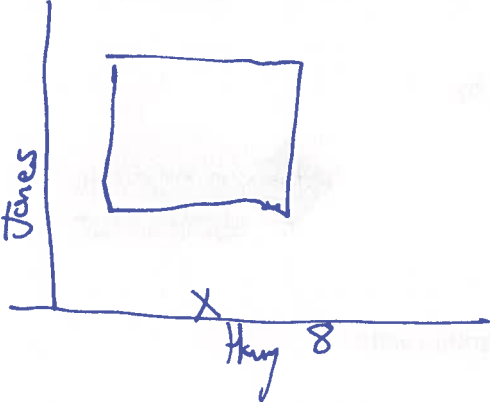
## Building Details

Street Address <i>777 Hwy 8</i>	City <i>Ham. Han</i>	Prov. <i>ON</i>	Postal Code	
Owner Name	Phone Number ( )	Email Address		

Type of building (please check one):

<input type="checkbox"/> House	<input type="checkbox"/> Church	<input type="checkbox"/> Store
<input type="checkbox"/> Lowrise Apartment	<input type="checkbox"/> School	<input type="checkbox"/> Factory
<input type="checkbox"/> Highrise Apartment	<input type="checkbox"/> Hospital	<input checked="" type="checkbox"/> Other, please specify: <i>Stoney Creek Municipal Building</i>

## Chimney Details

Site Name <i>777 Hwy 8</i>	Chimney Code <i>H-777-0</i>												
GPS coordinates (DD.dddd): Lat. <i>43.12.731</i> ° N Long. <i>79.41.500</i> ° W	NOTE: Chimney codes are created using the following scheme:  City Initials - Site Initials - Chimney Number  Eg. <table style="display: inline-table; border: none;"> <tr> <td style="border: none;">City Name</td> <td style="border: none;">Site Name</td> <td style="border: none;">No. of Chimneys</td> <td style="border: none;">Code</td> </tr> <tr> <td style="border: none;">Port Rowan</td> <td style="border: none;">Public Library</td> <td style="border: none;">1</td> <td style="border: none;">PR-PL-1</td> </tr> <tr> <td style="border: none;">London</td> <td style="border: none;">141 Wortley</td> <td style="border: none;">2</td> <td style="border: none;">LO-141-1 LO-141-2</td> </tr> </table>	City Name	Site Name	No. of Chimneys	Code	Port Rowan	Public Library	1	PR-PL-1	London	141 Wortley	2	LO-141-1 LO-141-2
City Name	Site Name	No. of Chimneys	Code										
Port Rowan	Public Library	1	PR-PL-1										
London	141 Wortley	2	LO-141-1 LO-141-2										
Number of years active (if known):	If possible, please draw a picture of the chimney location on the building, including the position where the coordinates were taken.  <div style="text-align: center; font-size: 2em; margin-bottom: 10px;"><i>None seen</i></div> 												
Chimney material (please check one): <input type="checkbox"/> Brick <input type="checkbox"/> Stucco <input type="checkbox"/> Concrete <input type="checkbox"/> Stone <input type="checkbox"/> Other, please specify: _____													
If the chimney is modified (cap, liner, etc.), please check the appropriate modification: <input type="checkbox"/> Cap <input type="checkbox"/> Terra Cotta Liner <input type="checkbox"/> Animal Guard <input type="checkbox"/> Spark Protector <input type="checkbox"/> Metal Liner <input type="checkbox"/> Other, please specify: _____													
Surrounding habitat (please check one): <input type="checkbox"/> Residential <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input type="checkbox"/> Natural <input type="checkbox"/> Other, please specify: _____													
Please select the SHAPE of your chimney and provide the appropriate estimated measurements:													
<input type="checkbox"/> Round      →      Diameter (cm): _____													
<input type="checkbox"/> Square      →      Width (cm): _____													
<input type="checkbox"/> Rectangular      →      Width (cm): _____      Length (cm): _____													
NOTE: Measurements can sometimes be estimated by counting bricks. Standard bricks have the following measurements: 20cm x 9cm x 6cm (L x W x H)													



# Chimney Assessment Form

Page 2

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Chimney height above roofline (m):	Number of Flues:	Colour of Chimney:
$\text{Total Chimney Height (m)} = \frac{\text{Number of stories in building}}{\times} 3 \text{ m} + \frac{\text{Height above roofline (m)}}{=} \text{m}$		
If swifts are present, are they: <input type="checkbox"/> Nesting <input type="checkbox"/> Roosting <input type="checkbox"/> Unknown		
Additional Comments:		

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In partnership with:



Environment Canada  
Environnement Canada  
Ontario Region  
Région de l'Ontario



**McIlwraith  
Field  
Naturalists**

# Chimney Assessment Form

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Page 1

## Observer Details

Name <b>D. Graham</b>	Phone Number ( )	Email Address		
Street Address	City	Prov.	Postal Code	

## Building Details

Street Address <b>743 Hwy 8</b>	City <b>Hamilton</b>	Prov. <b>ON</b>	Postal Code	
Owner Name	Phone Number ( )	Email Address		
Type of building (please check one):				
<input checked="" type="checkbox"/> House	<input type="checkbox"/> Church	<input type="checkbox"/> Store		
<input type="checkbox"/> Lowrise Apartment	<input type="checkbox"/> School	<input type="checkbox"/> Factory		
<input type="checkbox"/> Highrise Apartment	<input type="checkbox"/> Hospital	<input type="checkbox"/> Other, please specify: _____		

## Chimney Details

Site Name <b>743 Hwy 8</b>	Chimney Code <b>H-</b>															
GPS coordinates (DD.dddd): Lat. <b>47° 51' 8.2" N</b> Long. <b>60° 59' 59" W</b>	<p><b>NOTE:</b> Chimney codes are created using the following scheme:</p> <p style="text-align: center;">City Initials - Site Initials - Chimney Number</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Eg.</th> <th style="text-align: left;">City Name</th> <th style="text-align: left;">Site Name</th> <th style="text-align: center;">No. of Chimneys</th> <th style="text-align: left;">Code</th> </tr> </thead> <tbody> <tr> <td></td> <td>Port Rowan</td> <td>Public Library</td> <td style="text-align: center;">1</td> <td>PR-PL-1</td> </tr> <tr> <td></td> <td>London</td> <td>141 Wortley</td> <td style="text-align: center;">2</td> <td>LO-141-1 LO-141-2</td> </tr> </tbody> </table>	Eg.	City Name	Site Name	No. of Chimneys	Code		Port Rowan	Public Library	1	PR-PL-1		London	141 Wortley	2	LO-141-1 LO-141-2
Eg.		City Name	Site Name	No. of Chimneys	Code											
	Port Rowan	Public Library	1	PR-PL-1												
	London	141 Wortley	2	LO-141-1 LO-141-2												
Number of years active (if known):	<p>If possible, please draw a picture of the chimney location on the building, including the position where the coordinates were taken.</p> <div style="text-align: center;"> </div>															
Chimney material (please check one):																
<input checked="" type="checkbox"/> Brick <input type="checkbox"/> Stucco <input type="checkbox"/> Concrete <input type="checkbox"/> Stone <input type="checkbox"/> Other, please specify: _____																
If the chimney is modified (cap, liner, etc.), please check the appropriate modification:																
<input type="checkbox"/> Cap <input checked="" type="checkbox"/> Terra Cotta Liner <input type="checkbox"/> Animal Guard <input type="checkbox"/> Spark Protector <input type="checkbox"/> Metal Liner <input type="checkbox"/> Other, please specify: _____																
Surrounding habitat (please check one):																
<input checked="" type="checkbox"/> Residential <i>rural</i> <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input type="checkbox"/> Natural <input type="checkbox"/> Other, please specify: _____																
Please select the <b>SHAPE</b> of your chimney and provide the appropriate estimated measurements:																
<input type="checkbox"/> Round → Diameter (cm): _____ <input checked="" type="checkbox"/> Square → Width (cm): <b>50 x 50</b> <input type="checkbox"/> Rectangular → Width (cm): _____ Length (cm): _____																
<p><b>NOTE:</b> Measurements can sometimes be estimated by counting bricks. Standard bricks have the following measurements: <b>20cm x 9cm x 6cm (L x W x H)</b></p>																

# Chimney Assessment Form

Page 2

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Chimney height above roofline (m):	1	Number of Flues:	1	Colour of Chimney:	Brown
Total Chimney Height (m)	=	<u>2</u>	× 3 m	+	<u>1</u> = <u>7</u> m
		Number of stories in building	(approx height of one story)		Height above roofline (m)
If swifts are present, are they: <input type="checkbox"/> Nesting <input type="checkbox"/> Roosting <input type="checkbox"/> Unknown					
Additional Comments: <p style="text-align: center;">None seen</p>					

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# Chimney Assessment Form

Page 1

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## Observer Details

Name <i>D. Graham</i>	Phone Number ( )	Email Address		
Street Address	City	Prov.	Postal Code	

## Building Details

Street Address <i>703 Hwy 8</i>	City <i>Ham. Hon</i>	Prov. <i>ON</i>	Postal Code	
Owner Name	Phone Number ( )	Email Address		

Type of building (please check one):

<input type="checkbox"/> House	<input type="checkbox"/> Church	<input checked="" type="checkbox"/> Store
<input type="checkbox"/> Lowrise Apartment	<input type="checkbox"/> School	<input type="checkbox"/> Factory
<input type="checkbox"/> Highrise Apartment	<input type="checkbox"/> Hospital	<input type="checkbox"/> Other, please specify: _____

## Chimney Details

Site Name <i>703 Hwy 8</i>	Chimney Code <i>H1 - 703</i>															
GPS coordinates (DD.dddd): Lat. <i>4785231</i> ° N Long. <i>605701</i> ° W	<p><b>NOTE:</b> Chimney codes are created using the following scheme:</p> <p style="text-align: center;">City Initials - Site Initials - Chimney Number</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Eg.</th> <th style="text-align: left;">City Name</th> <th style="text-align: left;">Site Name</th> <th style="text-align: center;">No. of Chimneys</th> <th style="text-align: left;">Code</th> </tr> </thead> <tbody> <tr> <td></td> <td>Port Rowan</td> <td>Public Library</td> <td style="text-align: center;">1</td> <td>PR-PL-1</td> </tr> <tr> <td></td> <td>London</td> <td>141 Wortley</td> <td style="text-align: center;">2</td> <td>LO-141-1 LO-141-2</td> </tr> </tbody> </table>	Eg.	City Name	Site Name	No. of Chimneys	Code		Port Rowan	Public Library	1	PR-PL-1		London	141 Wortley	2	LO-141-1 LO-141-2
Eg.	City Name	Site Name	No. of Chimneys	Code												
	Port Rowan	Public Library	1	PR-PL-1												
	London	141 Wortley	2	LO-141-1 LO-141-2												
Number of years active (if known):	<p>If possible, please draw a picture of the chimney location on the building, including the position where the coordinates were taken.</p> <p style="font-size: 2em; text-align: center; color: blue;">No chimney</p>															
Chimney material (please check one):																
If the chimney is modified (cap, liner, etc.), please check the appropriate modification:																
Surrounding habitat (please check one):																
<p>Please select the <b>SHAPE</b> of your chimney and provide the appropriate estimated measurements:</p> <table style="width: 100%;"> <tr> <td><input type="checkbox"/> Round</td> <td>→ Diameter (cm): _____</td> </tr> <tr> <td><input type="checkbox"/> Square</td> <td>→ Width (cm): _____</td> </tr> <tr> <td><input type="checkbox"/> Rectangular</td> <td>→ Width (cm): _____ Length (cm): _____</td> </tr> </table>		<input type="checkbox"/> Round	→ Diameter (cm): _____	<input type="checkbox"/> Square	→ Width (cm): _____	<input type="checkbox"/> Rectangular	→ Width (cm): _____ Length (cm): _____									
<input type="checkbox"/> Round	→ Diameter (cm): _____															
<input type="checkbox"/> Square	→ Width (cm): _____															
<input type="checkbox"/> Rectangular	→ Width (cm): _____ Length (cm): _____															
<p><b>NOTE:</b> Measurements can sometimes be estimated by counting bricks. Standard bricks have the following measurements: <b>20cm x 9cm x 6cm (L x W x H)</b></p>																

# Chimney Assessment Form

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Chimney height above roofline (m):	Number of Flues:	Colour of Chimney:
Total Chimney Height (m) = _____ × 3 m + _____ = _____ m <small>Number of stories in building (approx height of one story) Height above roofline (m)</small>		
If swifts are present, are they: <input type="checkbox"/> Nesting <input type="checkbox"/> Roosting <input type="checkbox"/> Unknown		
Additional Comments: <p style="text-align: center; color: blue;">No birds seen</p>		

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# Chimney Assessment Form

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## Observer Details

Name <i>D. Graham</i>	Phone Number ( )	Email Address		
Street Address	City	Prov.	Postal Code	

## Building Details

Street Address <i>669 Hwy 8</i>	City <i>Hann. Hon</i>	Prov. <i>ON</i>	Postal Code	
Owner Name	Phone Number ( )	Email Address		
Type of building (please check one):				
<input checked="" type="checkbox"/> House	<input type="checkbox"/> Church	<input type="checkbox"/> Store		
<input type="checkbox"/> Lowrise Apartment	<input type="checkbox"/> School	<input type="checkbox"/> Factory		
<input type="checkbox"/> Highrise Apartment	<input type="checkbox"/> Hospital	<input type="checkbox"/> Other, please specify: _____		

## Chimney Details

Site Name <i>669 Hwy 8</i>	Chimney Code <i>H-669-1</i>															
GPS coordinates (DD.dddd): Lat. <i>47.85285</i> ° N Long. <i>60.5454</i> ° W	<p><b>NOTE:</b> Chimney codes are created using the following scheme:</p> <p style="text-align: center;">City Initials - Site Initials - Chimney Number</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Eg.</th> <th style="text-align: left;">City Name</th> <th style="text-align: left;">Site Name</th> <th style="text-align: center;">No. of Chimneys</th> <th style="text-align: left;">Code</th> </tr> </thead> <tbody> <tr> <td></td> <td>Port Rowan</td> <td>Public Library</td> <td style="text-align: center;">1</td> <td>PR-PL-1</td> </tr> <tr> <td></td> <td>London</td> <td>141 Wortley</td> <td style="text-align: center;">2</td> <td>LO-141-1 LO-141-2</td> </tr> </tbody> </table>	Eg.	City Name	Site Name	No. of Chimneys	Code		Port Rowan	Public Library	1	PR-PL-1		London	141 Wortley	2	LO-141-1 LO-141-2
Eg.		City Name	Site Name	No. of Chimneys	Code											
	Port Rowan	Public Library	1	PR-PL-1												
	London	141 Wortley	2	LO-141-1 LO-141-2												
Number of years active (if known):	<p>If possible, please draw a picture of the chimney location on the building, including the position where the coordinates were taken.</p> <div style="text-align: center; margin-top: 20px;"> </div>															
Chimney material (please check one):																
<input type="checkbox"/> Brick <input type="checkbox"/> Stucco <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Stone <input type="checkbox"/> Other, please specify: _____																
If the chimney is modified (cap, liner, etc.), please check the appropriate modification:																
<input type="checkbox"/> Cap <input checked="" type="checkbox"/> Terra Cotta Liner <input type="checkbox"/> Animal Guard <input type="checkbox"/> Spark Protector <input type="checkbox"/> Metal Liner <input type="checkbox"/> Other, please specify: _____																
Surrounding habitat (please check one):																
<input checked="" type="checkbox"/> Residential <i>residential</i> <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input type="checkbox"/> Natural <input type="checkbox"/> Other, please specify: _____																
Please select the <b>SHAPE</b> of your chimney and provide the appropriate estimated measurements:																
<input type="checkbox"/> Round                      → Diameter (cm): _____ <input checked="" type="checkbox"/> Square                      → Width (cm): <i>40 cm</i> <input type="checkbox"/> Rectangular                → Width (cm): _____ Length (cm): _____	<p><b>NOTE:</b> Measurements can sometimes be estimated by counting bricks. Standard bricks have the following measurements: <b>20cm x 9cm x 6cm (L x W x H)</b></p>															

# Chimney Assessment Form

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Chimney height above roofline (m):	2	Number of Flues:	1	Colour of Chimney:	Gray			
Total Chimney Height (m)	=	<u>1</u>	× 3 m	+	<u>2</u>	=	<u>5</u>	m
		Number of stories in building	(approx height of one story)		Height above roofline (m)			
If swifts are present, are they: <input type="checkbox"/> Nesting <input type="checkbox"/> Roosting <input type="checkbox"/> Unknown								
Additional Comments: <i>None seen.</i> <i>Barn Swallow foraging. Apparently suitable nesting sites nearby.</i>								

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# Chimney Assessment Form

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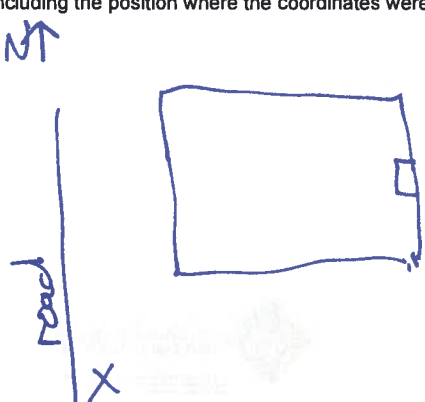
## Observer Details

Name <u>D. Graham</u>	Phone Number ( )	Email Address		
Street Address	City	Prov.	Postal Code	

## Building Details

Street Address <u>196 Fruitland Rd</u>	City <u>Ham. Hon</u>	Prov. <u>ON</u>	Postal Code	
Owner Name	Phone Number ( )	Email Address		
Type of building (please check one):				
<input checked="" type="checkbox"/> House	<input type="checkbox"/> Church	<input type="checkbox"/> Store		
<input type="checkbox"/> Lowrise Apartment	<input type="checkbox"/> School	<input type="checkbox"/> Factory		
<input type="checkbox"/> Highrise Apartment	<input type="checkbox"/> Hospital	<input type="checkbox"/> Other, please specify: _____		

## Chimney Details

Site Name <u>196 Fruitland</u>	Chimney Code <u>H-</u>															
GPS coordinates (DD.dddd): Lat. <u>47.85502</u> ° N Long. <u>60.5353</u> ° W	<p><b>NOTE:</b> Chimney codes are created using the following scheme:</p> <p style="text-align: center;">City Initials - Site Initials - Chimney Number</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Eg.</th> <th style="text-align: left;">City Name</th> <th style="text-align: left;">Site Name</th> <th style="text-align: center;">No. of Chimneys</th> <th style="text-align: left;">Code</th> </tr> </thead> <tbody> <tr> <td></td> <td>Port Rowan</td> <td>Public Library</td> <td style="text-align: center;">1</td> <td>PR-PL-1</td> </tr> <tr> <td></td> <td>London</td> <td>141 Wortley</td> <td style="text-align: center;">2</td> <td>LO-141-1 LO-141-2</td> </tr> </tbody> </table>	Eg.	City Name	Site Name	No. of Chimneys	Code		Port Rowan	Public Library	1	PR-PL-1		London	141 Wortley	2	LO-141-1 LO-141-2
Eg.		City Name	Site Name	No. of Chimneys	Code											
	Port Rowan	Public Library	1	PR-PL-1												
	London	141 Wortley	2	LO-141-1 LO-141-2												
Number of years active (if known):	<p>If possible, please draw a picture of the chimney location on the building, including the position where the coordinates were taken.</p> 															
Chimney material (please check one):																
<input checked="" type="checkbox"/> Brick <input type="checkbox"/> Stucco <input type="checkbox"/> Concrete <input type="checkbox"/> Stone <input type="checkbox"/> Other, please specify: _____																
If the chimney is modified (cap, liner, etc.), please check the appropriate modification:																
<input checked="" type="checkbox"/> Cap <input type="checkbox"/> Terra Cotta Liner <input type="checkbox"/> Animal Guard <input type="checkbox"/> Spark Protector <input checked="" type="checkbox"/> Metal Liner <input type="checkbox"/> Other, please specify: _____																
Surrounding habitat (please check one):																
<input checked="" type="checkbox"/> Residential <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input type="checkbox"/> Natural <input type="checkbox"/> Other, please specify: _____																
Please select the <b>SHAPE</b> of your chimney and provide the appropriate estimated measurements:																
<input type="checkbox"/> Round      → Diameter (cm): _____ <input type="checkbox"/> Square      → Width (cm): _____ <input checked="" type="checkbox"/> Rectangular      → Width (cm): <u>15</u> Length (cm): <u>30</u>																
<p><b>NOTE:</b> Measurements can sometimes be estimated by counting bricks. Standard bricks have the following measurements: 20cm x 9cm x 6cm (L x W x H)</p>																



# Chimney Assessment Form

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Chimney height above roofline (m):	0.5	Number of Flues:	1	Colour of Chimney:	Brown				
Total Chimney Height (m)	=	<u>2</u>	×	3 m	+	<u>1</u>	=	<u>7</u>	m
		Number of stories in building		(approx height of one story)		Height above roofline (m)			

If swifts are present, are they:  Nesting  Roosting  Unknown

Additional Comments:

None seen

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# Chimney Assessment Form

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## Observer Details

Name <u>D. Graham</u>	Phone Number ( )	Email Address		
Street Address	City	Prov.	Postal Code	

## Building Details

Street Address <u>222 Frontland Rd</u>	City <u>Hamilton</u>	Prov. <u>ON</u>	Postal Code	
Owner Name	Phone Number ( )	Email Address		

Type of building (please check one):

<input checked="" type="checkbox"/> House	<input type="checkbox"/> Church	<input type="checkbox"/> Store
<input type="checkbox"/> Lowrise Apartment	<input type="checkbox"/> School	<input type="checkbox"/> Factory
<input type="checkbox"/> Highrise Apartment	<input type="checkbox"/> Hospital	<input type="checkbox"/> Other, please specify: _____

## Chimney Details

Site Name <u>222 Frontland</u>	Chimney Code <u>H-222-1</u>															
GPS coordinates (DD.dddd): Lat. <u>4785727</u> ° N Long. <u>605406</u> ° W	<p><b>NOTE:</b> Chimney codes are created using the following scheme:</p> <p style="text-align: center;">City Initials - Site Initials - Chimney Number</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Eg.</th> <th style="text-align: left;">City Name</th> <th style="text-align: left;">Site Name</th> <th style="text-align: center;">No. of Chimneys</th> <th style="text-align: left;">Code</th> </tr> </thead> <tbody> <tr> <td></td> <td>Port Rowan</td> <td>Public Library</td> <td style="text-align: center;">1</td> <td>PR-PL-1</td> </tr> <tr> <td></td> <td>London</td> <td>141 Wortley</td> <td style="text-align: center;">2</td> <td>LO-141-1 LO-141-2</td> </tr> </tbody> </table>	Eg.	City Name	Site Name	No. of Chimneys	Code		Port Rowan	Public Library	1	PR-PL-1		London	141 Wortley	2	LO-141-1 LO-141-2
Eg.		City Name	Site Name	No. of Chimneys	Code											
	Port Rowan	Public Library	1	PR-PL-1												
	London	141 Wortley	2	LO-141-1 LO-141-2												
Number of years active (if known):	<p>If possible, please draw a picture of the chimney location on the building, including the position where the coordinates were taken.</p>															
Chimney material (please check one):																
If the chimney is modified (cap, liner, etc.), please check the appropriate modification:																
Surrounding habitat (please check one):																
<p>Please select the <b>SHAPE</b> of your chimney and provide the appropriate estimated measurements:</p> <table style="width: 100%;"> <tr> <td><input type="checkbox"/> Round</td> <td>→ Diameter (cm): _____</td> </tr> <tr> <td><input type="checkbox"/> Square</td> <td>→ Width (cm): _____</td> </tr> <tr> <td><input checked="" type="checkbox"/> Rectangular</td> <td>→ Width (cm): <u>20</u>      Length (cm): <u>60</u></td> </tr> </table>		<input type="checkbox"/> Round	→ Diameter (cm): _____	<input type="checkbox"/> Square	→ Width (cm): _____	<input checked="" type="checkbox"/> Rectangular	→ Width (cm): <u>20</u> Length (cm): <u>60</u>									
<input type="checkbox"/> Round	→ Diameter (cm): _____															
<input type="checkbox"/> Square	→ Width (cm): _____															
<input checked="" type="checkbox"/> Rectangular	→ Width (cm): <u>20</u> Length (cm): <u>60</u>															
<p><b>NOTE:</b> Measurements can sometimes be estimated by counting bricks. Standard bricks have the following measurements: 20cm x 9cm x 6cm (L x W x H)</p>																

# Chimney Assessment Form

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Chimney height above roofline (m):	1	Number of Flues:	1	Colour of Chimney:	Gray
Total Chimney Height (m)	=	2	× 3 m	+	1 = 7 m
		Number of stories in building	(approx height of one story)		Height above roofline (m)
<b>If swifts are present, are they:</b> <input type="checkbox"/> Nesting <input type="checkbox"/> Roosting <input type="checkbox"/> Unknown					
<b>Additional Comments:</b> <p style="text-align: center;">None seen. Barn Swallow foraging overhead</p>					

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# Chimney Assessment Form

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## Observer Details

Name <b>D. Graham</b>	Phone Number ( )	Email Address		
Street Address	City	Prov.	Postal Code	

## Building Details

Street Address <b>250 Fruitland Rd</b>	City <b>Hamilton</b>	Prov. <b>ON</b>	Postal Code	
Owner Name	Phone Number ( )	Email Address		

Type of building (please check one):

<input checked="" type="checkbox"/> House	<input type="checkbox"/> Church	<input type="checkbox"/> Store
<input type="checkbox"/> Lowrise Apartment	<input type="checkbox"/> School	<input type="checkbox"/> Factory
<input type="checkbox"/> Highrise Apartment	<input type="checkbox"/> Hospital	<input type="checkbox"/> Other, please specify: _____

## Chimney Details

Site Name <b>250 Fruitland</b>	Chimney Code <b>H-250-1</b>															
GPS coordinates (DD.dddd): Lat. <b>4785.921</b> ° N Long. <b>605459</b> ° W	<p><b>NOTE:</b> Chimney codes are created using the following scheme:</p> <p style="text-align: center;">City Initials - Site Initials - Chimney Number</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Eg.</th> <th style="text-align: left;">City Name</th> <th style="text-align: left;">Site Name</th> <th style="text-align: center;">No. of Chimneys</th> <th style="text-align: left;">Code</th> </tr> </thead> <tbody> <tr> <td></td> <td>Port Rowan</td> <td>Public Library</td> <td style="text-align: center;">1</td> <td>PR-PL-1</td> </tr> <tr> <td></td> <td>London</td> <td>141 Wortley</td> <td style="text-align: center;">2</td> <td>LO-141-1 LO-141-2</td> </tr> </tbody> </table>	Eg.	City Name	Site Name	No. of Chimneys	Code		Port Rowan	Public Library	1	PR-PL-1		London	141 Wortley	2	LO-141-1 LO-141-2
Eg.		City Name	Site Name	No. of Chimneys	Code											
	Port Rowan	Public Library	1	PR-PL-1												
	London	141 Wortley	2	LO-141-1 LO-141-2												
Number of years active (if known):	<p>If possible, please draw a picture of the chimney location on the building, including the position where the coordinates were taken.</p> <div style="text-align: center;"> </div>															
Chimney material (please check one): <input checked="" type="checkbox"/> Brick <input type="checkbox"/> Stucco <input type="checkbox"/> Concrete <input type="checkbox"/> Stone <input type="checkbox"/> Other, please specify: _____																
If the chimney is modified (cap, liner, etc.), please check the appropriate modification: <input checked="" type="checkbox"/> Cap <input type="checkbox"/> Terra Cotta Liner <input type="checkbox"/> Animal Guard <input checked="" type="checkbox"/> Spark Protector <input type="checkbox"/> Metal Liner <input type="checkbox"/> Other, please specify: _____																
Surrounding habitat (please check one): <input checked="" type="checkbox"/> Residential <b>Rural</b> <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input type="checkbox"/> Natural <input type="checkbox"/> Other, please specify: _____																
<p>Please select the <b>SHAPE</b> of your chimney and provide the appropriate estimated measurements:</p> <table style="width: 100%;"> <tr> <td><input type="checkbox"/> Round</td> <td>→ Diameter (cm): _____</td> </tr> <tr> <td><input type="checkbox"/> Square</td> <td>→ Width (cm): _____</td> </tr> <tr> <td><input checked="" type="checkbox"/> Rectangular</td> <td>→ Width (cm): <b>25</b>      Length (cm): <b>50</b></td> </tr> </table>		<input type="checkbox"/> Round	→ Diameter (cm): _____	<input type="checkbox"/> Square	→ Width (cm): _____	<input checked="" type="checkbox"/> Rectangular	→ Width (cm): <b>25</b> Length (cm): <b>50</b>									
<input type="checkbox"/> Round	→ Diameter (cm): _____															
<input type="checkbox"/> Square	→ Width (cm): _____															
<input checked="" type="checkbox"/> Rectangular	→ Width (cm): <b>25</b> Length (cm): <b>50</b>															
<p><b>NOTE:</b> Measurements can sometimes be estimated by counting bricks. Standard bricks have the following measurements: <b>20cm x 9cm x 6cm (L x W x H)</b></p>																

# Chimney Assessment Form

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Page 2

Chimney height above roofline (m): <u>3</u>	Number of Flues: <u>1</u>	Colour of Chimney: <u>Brown</u>
Total Chimney Height (m) = <u>1</u> × 3 m + <u>3</u> = <u>6</u> m		
Number of stories in building (approx height of one story)      Height above roofline (m)		
If swifts are present, are they: <input type="checkbox"/> Nesting <input type="checkbox"/> Roosting <input type="checkbox"/> Unknown		
Additional Comments: <p style="text-align: center;"><u>None seen</u></p>		

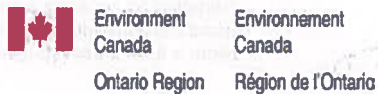
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# Chimney Assessment Form

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Page 1

## Observer Details

Name <span style="font-size: 1.2em; color: blue;">D. Graham</span>	Phone Number ( )	Email Address		
Street Address	City	Prov.	Postal Code	

## Building Details

Street Address <span style="font-size: 1.2em; color: blue;">288 Fruitland Rd</span>	City <span style="font-size: 1.2em; color: blue;">Hampton</span>	Prov. <span style="font-size: 1.2em; color: blue;">ON</span>	Postal Code	
Owner Name	Phone Number ( )	Email Address		
Type of building (please check one):				
<input checked="" type="checkbox"/> House	<input type="checkbox"/> Church	<input type="checkbox"/> Store		
<input type="checkbox"/> Lowrise Apartment	<input type="checkbox"/> School	<input type="checkbox"/> Factory		
<input type="checkbox"/> Highrise Apartment	<input type="checkbox"/> Hospital	<input type="checkbox"/> Other, please specify: _____		

## Chimney Details

Site Name <span style="font-size: 1.2em; color: blue;">288 Fruitland</span>	Chimney Code <span style="font-size: 1.2em; color: blue;">H-288-1</span>															
GPS coordinates (DD.dddd): Lat. <span style="font-size: 1.2em; color: blue;">4786204</span> ° N Long. <span style="font-size: 1.2em; color: blue;">605526</span> ° W	<p><b>NOTE:</b> Chimney codes are created using the following scheme:</p> <p style="text-align: center;">City Initials - Site Initials - Chimney Number</p> <table style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Eg.</th> <th style="text-align: left;">City Name</th> <th style="text-align: left;">Site Name</th> <th style="text-align: center;">No. of Chimneys</th> <th style="text-align: left;">Code</th> </tr> </thead> <tbody> <tr> <td></td> <td>Port Rowan</td> <td>Public Library</td> <td style="text-align: center;">1</td> <td>PR-PL-1</td> </tr> <tr> <td></td> <td>London</td> <td>141 Wortley</td> <td style="text-align: center;">2</td> <td>LO-141-1 LO-141-2</td> </tr> </tbody> </table>	Eg.	City Name	Site Name	No. of Chimneys	Code		Port Rowan	Public Library	1	PR-PL-1		London	141 Wortley	2	LO-141-1 LO-141-2
Eg.		City Name	Site Name	No. of Chimneys	Code											
	Port Rowan	Public Library	1	PR-PL-1												
	London	141 Wortley	2	LO-141-1 LO-141-2												
Number of years active (if known):	<p>If possible, please draw a picture of the chimney location on the building, including the position where the coordinates were taken.</p> <div style="text-align: center; margin-top: 20px;"> </div>															
Chimney material (please check one):																
<input type="checkbox"/> Brick <input type="checkbox"/> Stucco <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Stone <input type="checkbox"/> Other, please specify: _____																
If the chimney is modified (cap, liner, etc.), please check the appropriate modification:																
<input checked="" type="checkbox"/> Cap <input type="checkbox"/> Terra Cotta Liner <input type="checkbox"/> Animal Guard <input type="checkbox"/> Spark Protector <input type="checkbox"/> Metal Liner <input type="checkbox"/> Other, please specify: _____																
Surrounding habitat (please check one):																
<input checked="" type="checkbox"/> Residential <span style="color: blue; font-size: 1.2em;">/residential</span> <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input type="checkbox"/> Natural <input type="checkbox"/> Other, please specify: _____																
Please select the <b>SHAPE</b> of your chimney and provide the appropriate estimated measurements:																
<input type="checkbox"/> Round                      →      Diameter (cm): _____ <input checked="" type="checkbox"/> Square                      →      Width (cm): <span style="font-size: 1.2em; color: blue;">50</span> <input type="checkbox"/> Rectangular                      →      Width (cm): _____      Length (cm): _____																
<p><b>NOTE:</b> Measurements can sometimes be estimated by counting bricks. Standard bricks have the following measurements: <b>20cm x 9cm x 6cm (L x W x H)</b></p>																

# Chimney Assessment Form

Page 2

23

Chimney height above roofline (m):	1	Number of Flues:	1	Colour of Chimney:	Gray			
Total Chimney Height (m)	=	<u>2</u>	× 3 m	+	<u>1</u>	=	<u>7</u>	m
		Number of stories in building	(approx height of one story)		Height above roofline (m)			
If swifts are present, are they: <input type="checkbox"/> Nesting <input type="checkbox"/> Roosting <input type="checkbox"/> Unknown								
Additional Comments: <p style="text-align: center;">None seen</p>								

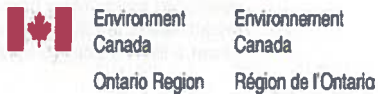
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# Chimney Assessment Form

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Page 1

## Observer Details

Name <i>D. Graham</i>	Phone Number ( )	Email Address		
Street Address	City	Prov.	Postal Code	

## Building Details

Street Address <i>287 Jones Rd.</i>	City <i>Hamilton</i>	Prov. <i>ON</i>	Postal Code	
Owner Name	Phone Number ( )	Email Address		
Type of building (please check one):				
<input checked="" type="checkbox"/> House	<input type="checkbox"/> Church	<input type="checkbox"/> Store		
<input type="checkbox"/> Lowrise Apartment	<input type="checkbox"/> School	<input type="checkbox"/> Factory		
<input type="checkbox"/> Highrise Apartment	<input type="checkbox"/> Hospital	<input type="checkbox"/> Other, please specify: _____		

## Chimney Details

Site Name <i>287 Jones</i>	Chimney Code <i>H-287</i>															
GPS coordinates (DD.dddd): Lat. <i>47.85965</i> ° N Long. <i>60.6379</i> ° W	<p><b>NOTE:</b> Chimney codes are created using the following scheme:</p> <p style="text-align: center;">City Initials - Site Initials - Chimney Number</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Eg.</th> <th style="text-align: left;">City Name</th> <th style="text-align: left;">Site Name</th> <th style="text-align: left;">No. of Chimneys</th> <th style="text-align: left;">Code</th> </tr> </thead> <tbody> <tr> <td></td> <td>Port Rowan</td> <td>Public Library</td> <td style="text-align: center;">1</td> <td>PR-PL-1</td> </tr> <tr> <td></td> <td>London</td> <td>141 Wortley</td> <td style="text-align: center;">2</td> <td>LO-141-1 LO-141-2</td> </tr> </tbody> </table>	Eg.	City Name	Site Name	No. of Chimneys	Code		Port Rowan	Public Library	1	PR-PL-1		London	141 Wortley	2	LO-141-1 LO-141-2
Eg.		City Name	Site Name	No. of Chimneys	Code											
	Port Rowan	Public Library	1	PR-PL-1												
	London	141 Wortley	2	LO-141-1 LO-141-2												
Number of years active (if known):	<p>If possible, please draw a picture of the chimney location on the building, including the position where the coordinates were taken.</p> <div style="text-align: center; margin-top: 20px;"> </div>															
Chimney material (please check one): <input checked="" type="checkbox"/> Brick <input type="checkbox"/> Stucco <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Stone <input type="checkbox"/> Other, please specify: _____																
If the chimney is modified (cap, liner, etc.), please check the appropriate modification: <input checked="" type="checkbox"/> Cap <input type="checkbox"/> Terra Cotta Liner <input type="checkbox"/> Animal Guard <input type="checkbox"/> Spark Protector <input type="checkbox"/> Metal Liner <input type="checkbox"/> Other, please specify: _____																
Surrounding habitat (please check one): <input checked="" type="checkbox"/> Residential <i>Rural</i> <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input type="checkbox"/> Natural <input type="checkbox"/> Other, please specify: _____																
Please select the <b>SHAPE</b> of your chimney and provide the appropriate estimated measurements:																
<input type="checkbox"/> Round      → Diameter (cm): _____ <input checked="" type="checkbox"/> Square      → Width (cm): <u>50</u> <input type="checkbox"/> Rectangular      → Width (cm): _____ Length (cm): _____																
<p><b>NOTE:</b> Measurements can sometimes be estimated by counting bricks. Standard bricks have the following measurements: 20cm x 9cm x 6cm (L x W x H)</p>																



# Chimney Assessment Form

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Page 2

Chimney height above roofline (m):	1	Number of Flues:	1	Colour of Chimney:	Gray
Total Chimney Height (m)	=	1	× 3 m	+	1 = 4 m
		Number of stories in building	(approx height of one story)	Height above roofline (m)	
<b>If swifts are present, are they:</b> <input type="checkbox"/> Nesting <input type="checkbox"/> Roosting <input type="checkbox"/> Unknown					
<b>Additional Comments:</b> <p style="text-align: center;">None seen</p>					

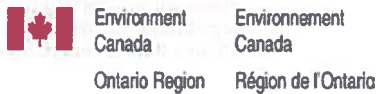
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# Chimney Assessment Form

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Page 1

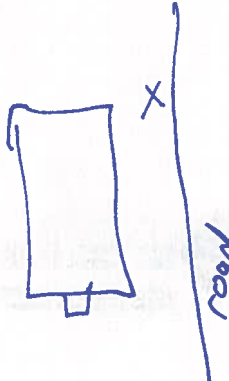
## Observer Details

Name <u>D. Graham</u>	Phone Number ( )	Email Address	
Street Address	City	Prov.	Postal Code

## Building Details

Street Address <u>259 Jones Rd</u>	City <u>Ham. Hon</u>	Prov. <u>ON</u>	Postal Code
Owner Name	Phone Number ( )	Email Address	
Type of building (please check one):			
<input checked="" type="checkbox"/> House	<input type="checkbox"/> Church	<input type="checkbox"/> Store	
<input type="checkbox"/> Lowrise Apartment	<input type="checkbox"/> School	<input type="checkbox"/> Factory	
<input type="checkbox"/> Highrise Apartment	<input type="checkbox"/> Hospital	<input type="checkbox"/> Other, please specify: _____	

## Chimney Details

Site Name <u>259 Jones</u>	Chimney Code <u>H-259</u>															
GPS coordinates (DD.dddd): Lat. <u>4785796</u> ° N Long. <u>606335</u> ° W	<p><b>NOTE:</b> Chimney codes are created using the following scheme:</p> <p style="text-align: center;">City Initials - Site Initials - Chimney Number</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Eg.</th> <th style="text-align: left;">City Name</th> <th style="text-align: left;">Site Name</th> <th style="text-align: center;">No. of Chimneys</th> <th style="text-align: left;">Code</th> </tr> </thead> <tbody> <tr> <td></td> <td>Port Rowan</td> <td>Public Library</td> <td style="text-align: center;">1</td> <td>PR-PL-1</td> </tr> <tr> <td></td> <td>London</td> <td>141 Wortley</td> <td style="text-align: center;">2</td> <td>LO-141-1 LO-141-2</td> </tr> </tbody> </table>	Eg.	City Name	Site Name	No. of Chimneys	Code		Port Rowan	Public Library	1	PR-PL-1		London	141 Wortley	2	LO-141-1 LO-141-2
Eg.		City Name	Site Name	No. of Chimneys	Code											
	Port Rowan	Public Library	1	PR-PL-1												
	London	141 Wortley	2	LO-141-1 LO-141-2												
Number of years active (if known):	<p>If possible, please draw a picture of the chimney location on the building, including the position where the coordinates were taken.</p> 															
Chimney material (please check one):																
<input checked="" type="checkbox"/> Brick <input type="checkbox"/> Stucco <input type="checkbox"/> Concrete <input type="checkbox"/> Stone <input type="checkbox"/> Other, please specify: _____																
If the chimney is modified (cap, liner, etc.), please check the appropriate modification:																
<input type="checkbox"/> Cap <input checked="" type="checkbox"/> Terra Cotta Liner <input type="checkbox"/> Animal Guard <input type="checkbox"/> Spark Protector <input type="checkbox"/> Metal Liner <input type="checkbox"/> Other, please specify: _____																
Surrounding habitat (please check one):																
<input checked="" type="checkbox"/> Residential <u>Rural</u> <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input type="checkbox"/> Natural <input type="checkbox"/> Other, please specify: _____																
Please select the <b>SHAPE</b> of your chimney and provide the appropriate estimated measurements:																
<input type="checkbox"/> Round      → Diameter (cm): _____ <input type="checkbox"/> Square      → Width (cm): _____ <input checked="" type="checkbox"/> Rectangular      → Width (cm): <u>50</u> Length (cm): <u>80</u>																
<p><b>NOTE:</b> Measurements can sometimes be estimated by counting bricks. Standard bricks have the following measurements: 20cm x 9cm x 6cm (L x W x H)</p>																

# Chimney Assessment Form

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Page 2

Chimney height above roofline (m): <u>2.5</u>	Number of Flues: <u>1</u>	Colour of Chimney: <u>Brown</u>
Total Chimney Height (m) = <u>1</u> × 3 m + <u>2.5</u> = <u>5.5</u> m <small>Number of stories in building (approx height of one story) Height above roofline (m)</small>		
If swifts are present, are they: <input type="checkbox"/> Nesting <input type="checkbox"/> Roosting <input type="checkbox"/> Unknown		
Additional Comments: <p style="text-align: center;"><u>None seen</u></p>		

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# Chimney Assessment Form

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Page 1

## Observer Details

Name <u>D. Graham</u>	Phone Number ( )	Email Address
Street Address	City	Prov.      Postal Code

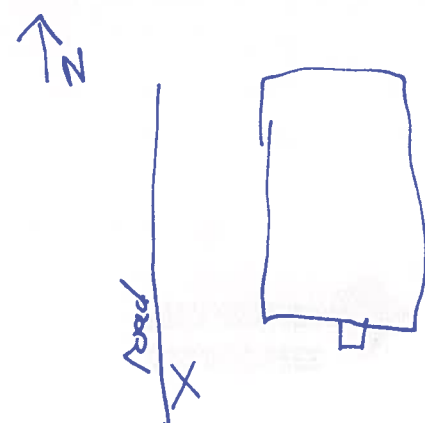
## Building Details

Street Address <u>238 Jones Rd</u>	City <u>Hamilton</u>	Prov. <u>ON</u>	Postal Code
Owner Name	Phone Number ( )	Email Address	

Type of building (please check one):

<input checked="" type="checkbox"/> House	<input type="checkbox"/> Church	<input type="checkbox"/> Store
<input type="checkbox"/> Lowrise Apartment	<input type="checkbox"/> School	<input type="checkbox"/> Factory
<input type="checkbox"/> Highrise Apartment	<input type="checkbox"/> Hospital	<input type="checkbox"/> Other, please specify: _____

## Chimney Details

Site Name <u>238 Jones</u>	Chimney Code <u>H-238-1</u>															
GPS coordinates (DD.dddd): Lat. <u>47° 55' 62" N</u> Long. <u>60° 62' 51" W</u>	<p><b>NOTE:</b> Chimney codes are created using the following scheme:</p> <p style="text-align: center;">City Initials - Site Initials - Chimney Number</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Eg.</th> <th style="text-align: left;">City Name</th> <th style="text-align: left;">Site Name</th> <th style="text-align: center;">No. of Chimneys</th> <th style="text-align: left;">Code</th> </tr> </thead> <tbody> <tr> <td></td> <td>Port Rowan</td> <td>Public Library</td> <td style="text-align: center;">1</td> <td>PR-PL-1</td> </tr> <tr> <td></td> <td>London</td> <td>141 Wortley</td> <td style="text-align: center;">2</td> <td>LO-141-1 LO-141-2</td> </tr> </tbody> </table>	Eg.	City Name	Site Name	No. of Chimneys	Code		Port Rowan	Public Library	1	PR-PL-1		London	141 Wortley	2	LO-141-1 LO-141-2
Eg.		City Name	Site Name	No. of Chimneys	Code											
	Port Rowan	Public Library	1	PR-PL-1												
	London	141 Wortley	2	LO-141-1 LO-141-2												
Number of years active (if known):	<p>If possible, please draw a picture of the chimney location on the building, including the position where the coordinates were taken.</p> 															
Chimney material (please check one): <input checked="" type="checkbox"/> Brick <input type="checkbox"/> Stucco <input type="checkbox"/> Concrete <input type="checkbox"/> Stone <input type="checkbox"/> Other, please specify: _____																
If the chimney is modified (cap, liner, etc.), please check the appropriate modification: <input checked="" type="checkbox"/> Cap <input type="checkbox"/> Terra Cotta Liner <input type="checkbox"/> Animal Guard <input type="checkbox"/> Spark Protector <input type="checkbox"/> Metal Liner <input type="checkbox"/> Other, please specify: _____																
Surrounding habitat (please check one): <input checked="" type="checkbox"/> Residential <u>rural</u> <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input type="checkbox"/> Natural <input type="checkbox"/> Other, please specify: _____																
<p>Please select the <b>SHAPE</b> of your chimney and provide the appropriate estimated measurements:</p> <table style="width: 100%;"> <tr> <td><input type="checkbox"/> Round</td> <td>→ Diameter (cm): _____</td> </tr> <tr> <td><input type="checkbox"/> Square</td> <td>→ Width (cm): _____</td> </tr> <tr> <td><input checked="" type="checkbox"/> Rectangular</td> <td>→ Width (cm): <u>40</u>      Length (cm): <u>80</u></td> </tr> </table>		<input type="checkbox"/> Round	→ Diameter (cm): _____	<input type="checkbox"/> Square	→ Width (cm): _____	<input checked="" type="checkbox"/> Rectangular	→ Width (cm): <u>40</u> Length (cm): <u>80</u>									
<input type="checkbox"/> Round	→ Diameter (cm): _____															
<input type="checkbox"/> Square	→ Width (cm): _____															
<input checked="" type="checkbox"/> Rectangular	→ Width (cm): <u>40</u> Length (cm): <u>80</u>															
<p><b>NOTE:</b> Measurements can sometimes be estimated by counting bricks. Standard bricks have the following measurements: 20cm x 9cm x 6cm (L x W x H)</p>																

# Chimney Assessment Form

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Page 2

Chimney height above roofline (m):	0.5	Number of Flues:	1	Colour of Chimney:	Brown
Total Chimney Height (m)	=	<u>2</u>	× 3 m	+	<u>0.5</u> = <u>6.5</u> m
		Number of stories in building	(approx height of one story)		Height above roofline (m)
If swifts are present, are they: <input type="checkbox"/> Nesting <input type="checkbox"/> Roosting <input type="checkbox"/> Unknown					
Additional Comments: <p style="text-align: center;">None seen</p>					

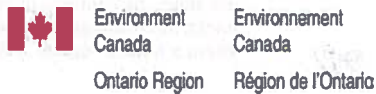
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# Chimney Assessment Form

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Page 1

## Observer Details

Name <i>D. Graham</i>	Phone Number ( )	Email Address	
Street Address	City	Prov.	Postal Code

## Building Details

Street Address <i>197 Jones Rd</i>	City <i>Han. Hon</i>	Prov. <i>ON</i>	Postal Code
Owner Name	Phone Number ( )	Email Address	
Type of building (please check one):			
<input checked="" type="checkbox"/> House	<input type="checkbox"/> Church	<input type="checkbox"/> Store	
<input type="checkbox"/> Lowrise Apartment	<input type="checkbox"/> School	<input type="checkbox"/> Factory	
<input type="checkbox"/> Highrise Apartment	<input type="checkbox"/> Hospital	<input type="checkbox"/> Other, please specify: _____	

## Chimney Details

Site Name <i>197 Jones</i>	Chimney Code <i>H-197-1</i>															
GPS coordinates (DD.dddd): Lat. <i>47° 53' 32"</i> ° N Long. <i>60° 6' 22"</i> ° W	<p><b>NOTE:</b> Chimney codes are created using the following scheme:</p> <p style="text-align: center;">City Initials - Site Initials - Chimney Number</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Eg.</th> <th style="text-align: left;">City Name</th> <th style="text-align: left;">Site Name</th> <th style="text-align: center;">No. of Chimneys</th> <th style="text-align: left;">Code</th> </tr> </thead> <tbody> <tr> <td></td> <td>Port Rowan</td> <td>Public Library</td> <td style="text-align: center;">1</td> <td>PR-PL-1</td> </tr> <tr> <td></td> <td>London</td> <td>141 Wortley</td> <td style="text-align: center;">2</td> <td>LO-141-1 LO-141-2</td> </tr> </tbody> </table>	Eg.	City Name	Site Name	No. of Chimneys	Code		Port Rowan	Public Library	1	PR-PL-1		London	141 Wortley	2	LO-141-1 LO-141-2
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	London	141 Wortley	2	LO-141-1 LO-141-2												
Number of years active (if known):	<p>If possible, please draw a picture of the chimney location on the building, including the position where the coordinates were taken.</p> <div style="text-align: center;"> </div>															
Chimney material (please check one):																
<input checked="" type="checkbox"/> Brick <input type="checkbox"/> Stucco <input type="checkbox"/> Concrete <input type="checkbox"/> Stone <input type="checkbox"/> Other, please specify: _____																
If the chimney is modified (cap, liner, etc.), please check the appropriate modification:																
<input checked="" type="checkbox"/> Cap <input checked="" type="checkbox"/> Terra Cotta Liner <input type="checkbox"/> Animal Guard <input type="checkbox"/> Spark Protector <input type="checkbox"/> Metal Liner <input type="checkbox"/> Other, please specify: _____																
Surrounding habitat (please check one):																
<input checked="" type="checkbox"/> Residential <i>road</i> <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input type="checkbox"/> Natural <input type="checkbox"/> Other, please specify: _____																
Please select the <b>SHAPE</b> of your chimney and provide the appropriate estimated measurements:																
<input type="checkbox"/> Round      → Diameter (cm): _____ <input type="checkbox"/> Square      → Width (cm): _____ <input checked="" type="checkbox"/> Rectangular      → Width (cm): <u>50</u> Length (cm): <u>120</u>																
<p><b>NOTE:</b> Measurements can sometimes be estimated by counting bricks. Standard bricks have the following measurements: 20cm x 9cm x 6cm (L x W x H)</p>																

# Chimney Assessment Form

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Page 2

Chimney height above roofline (m):	1	Number of Flues:	1	Colour of Chimney:	Tan						
Total Chimney Height (m)	=	Number of stories in building	1	×	3 m	+	Height above roofline (m)	1	=	4	m
If swifts are present, are they: <input type="checkbox"/> Nesting <input type="checkbox"/> Roosting <input type="checkbox"/> Unknown											
Additional Comments: <p style="text-align: center; font-size: 1.2em;">None seen</p>											

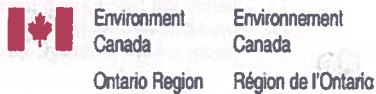
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# Daytime Chimney Observation Form

Page 1

Province: Ontario  
 City: Hamilton  
 Site Name: Fruitland-Winona  
 Chimney Code: \_\_\_\_\_  
 GPS Coord. (UTMs or Lat/Long): \_\_\_\_\_

Observer Name: D. Graham  
 Observer Address: Stantec Markham  
300-675 Cochrane Dr. West Tower  
 Telephone: 905-415-6417  
 E-mail: dan.graham@stantec.com

Date (dd/mm/yy)	Observation start time (hh:mm)	Observation end time (hh:mm)	Visit #	Estimated # of birds using chimney
31/05/12	14:45	21:15	1	

Precipitation	Cloud	Wind	Temperature (°C)
None Trace Rain	① 2 3 4 5	0 1 ② ③ 4 5 6	18° C.

**Additional Comments:**  
 No chimneys suitable for chimney swift roosting or nesting were observed at the following 27 sites during a reconnaissance survey conducted May 2012. This additional survey conducted to provide evidence that Chimney Swift is absent as a nesting or roosting species in the Fruitland-Winona Secondary Plan Area.

Wind (Beaufort Scale)	Cloud Cover
0 Calm, smoke rises vertically	1 0-25%
1 Light air movement, smoke drifts	2 25-50%
2 Slight breeze, wind felt on face	3 50-75%
3 Gentle breeze, small twigs move	4 75-100%
4 Moderate breeze, small branches move	5 Fog
5 Fresh breeze, small trees sway	
6 Strong breeze, large branches in motion	

Feasting or Nourishing recorded on 2nd sheet

Station #

Station #	Entrances		Exits	
	Time (hh:mm)	# Birds	Time (hh:mm)	# Birds
1	14:45	0	14:45	0
2	15:00	0	15:00	0
3	15:15	0	15:15	0
4	15:30	0	15:30	0
5	15:45	0	15:45	0
6	16:00	0	16:00	0
7	16:20	0	16:20	0
8	16:40	0	16:40	0
9	17:00	0	17:00	0
10	17:20	0	17:20	0
11	17:40	0	17:40	0
12	18:00	0	18:00	0
13	18:20	0	18:20	0
14	18:40	0	18:40	0
15	19:00	0	19:00	0

2 birds flew over but made no contact to the chimney site. Adjacent chimneys unsuitable for CSSW using criteria in the CSSW Mandatory Protocol.

Incidental:  
 Barn Swallow seen @ #7, #6, #14, #18, #19  
 Cooper's Hawk: #19  
 C. Nighthawk (THR) #22





Property	Site Number	Easting	Northing
660 Barton ✓	1	605674	4786287
692 Barton ✓	2	605881	4786235
720 Barton ✓	3	606102	4786169
748 Barton ✓	4	606297	4786111
788 Barton ✓	5	606527	4786043
822 Barton ✓	6	606758	4785968
844 Barton ✓	7	606904	4785915
884 Barton ✓	8	607206	4785821
Barton (Stoney Creek Christian Fellowship) ✓	9	607304	4785777
267 Glover ✓	10	607173	4785563
239 Glover ✓	11	607101	4785327
Glover (Kingdom Hall of Jehovah's Witnesses) ✓	12	607057	4785169
873 Hwy 8 ✓	13	606915	4785087
843 Hwy 8 ✓	14	606734	4785187
809 Hwy 8 ✓	15	43.12	79.41
777 Hwy 8 ✓	16	43.12	79.41
743 Hwy 8 ✓	17	605959	4785182
703 Hwy 8 ✓	18	605701	4785231
669 Hwy 8 ✓	19	605454	4785285
196 Fruitland ✓	20	605353	4785502
222 Fruitland ✓	21	605406	4785727
250 Fruitland ✓	22	605459	4785921
288 Fruitland ✓	23	605526	4786204
287 Jones ✓	24	606379	4785965
259 Jones ✓	25	606335	4785796
238 Jones ✓	26	606281	4785562
197 Jones ✓	27	606228	4785332

CHSW  
606448; 4785209  
606241; 4785242

## May 31<sup>st</sup> Daytime Chimney Swift Survey

### Comments

- Site 2: AMKE, a declining grassland species observed overflying site -
- Site 14: 2 CHSW aerial foraging over site. Birds made no effort to fly into chimney of this or adjacent properties. Chimneys of subject property & adjacent properties appeared unsuitable for species based on criteria contained in the CHSW Monitoring Protocol.
- Site 15: As at site 14, only differing in 4 CHSW aerial foraging



Hamilton  
60950443  
CHSW

June 25 2012 . - wind in 4m  
- 20°C.  
- 10% cloud  
-  $\phi$  precip.

① Stn 14 - 843 Hwy 8 . -  $\phi$  CHSW observed.  
10:15 - 10:30

② Stn 15 - 809 Hwy 8 .  $\rightarrow$   $\phi$  CHSW obs. BUT  
10:35 - 10:50 .  $\rightarrow$  note  $\rightarrow$  3 CHSW obs.  
on BBS#10 adjacent to  
this stn (earlier)



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### Barn Swallow Observation Form

Project Number 160950443

Project Name: Fantland - Winona

Date: June 11, 2012

Field Personnel: Michael Oliveira

<b>Weather Conditions:</b>	Temp: <u>17°C</u>	Wind: <u>0</u>	Cloud: <u>20%</u>	PPT: <u>0</u>	PPT in last 24 hrs: <u>0</u>
----------------------------	-------------------	----------------	-------------------	---------------	------------------------------

Survey Station	Time	GPS Coordinates	# BARS observed	Type of structure (e.g. barn, culvert)	Accessible nesting sites (Y or N)	Nests	
						Active	Inactive
<u>10</u>	<u>9:13-9:18</u>	<u>606801 4785428</u>	<u>5</u>	<u>N/A.</u>	<u>Foraging only</u>		

Quality Control: This form is complete ( ) & legible ( ).

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

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



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## Barn Swallow Observation Form

Project Number 160950443

Project Name: Fruitland - Winona

Date: June 11, 2012

Field Personnel: M. Oliveira

<b>Weather Conditions:</b>	Temp: <u>17°C</u>	Wind: <u>0</u>	Cloud: <u>20%</u>	PPT: <u>∅</u>	PPT in last 24 hrs: <u>∅</u>
----------------------------	-------------------	----------------	-------------------	---------------	------------------------------

July 8

Survey Station	Time	GPS Coordinates	# BARS observed	Type of structure (e.g. barn, culvert)	Accessible nesting sites (Y or N)	Nests	
						Active	Inactive
	10 <sup>10</sup> -10 <sup>15</sup>	606318, 4785210	0	Concrete box culvert	No.		None
	10 <sup>23</sup> -10 <sup>28</sup>	606729, 4785199	0	Concrete box culvert	No		None
	10 <sup>35</sup> -10 <sup>40</sup>	607153, 4785490	0	Concrete box culvert	No		None
	10 <sup>43</sup> -10 <sup>48</sup>	606608, 4786033	0	Pipe culvert	No		None
	10 <sup>55</sup> -11 <sup>03</sup>	606002, 4786211	0	No culvert present	No		None
	11 <sup>09</sup> -11 <sup>14</sup>	608623, 4786279	0	Pipe/concrete culvert	No		None
	11 <sup>18</sup> -11 <sup>23</sup>	608331, 4785484	0	Two concrete pipes running parallel with Fruitland Rd. Not suitable for nesting	No		None

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

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



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**Stantec**

## Barn Swallow Observation Form

Project Number 60950443

Project Name: Hamilton

Date: June 12, 2012

Field Personnel: N. Kopush

<b>Weather Conditions:</b>	Temp: <u>20°C</u>	Wind: <u>3</u>	Cloud: <u>100%</u>	PPT:	PPT in last 24 hrs: <u>rain overnight</u>
----------------------------	-------------------	----------------	--------------------	------	---

Station #13

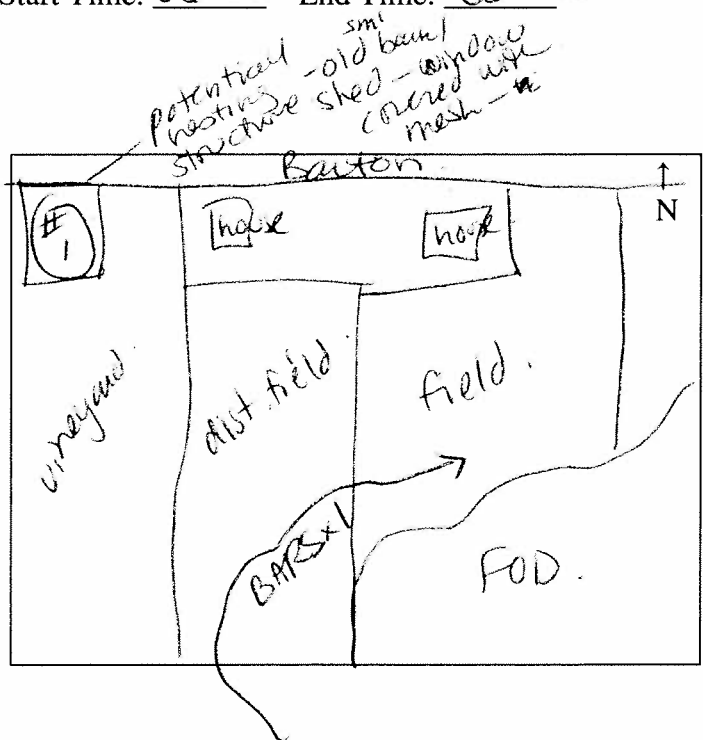
Location of BARS observation: ~~\_\_\_\_\_~~

Start Time: 06:30 End Time: 06:45

Tally of BARS: ~~\_\_\_\_\_~~ 1

Sketch of Habitat (include foraging habitat and location of potential nesting structures) or provide details on air photo

- Map crop types in vicinity of BARS observation and surrounding area (i.e. within 200m)
- Include location of water bodies (e.g. river, pond)
- Mark location of BARS foraging
- Mark location of potential nesting structures



### Description of Potential Nesting Structures:

Structure # (indicate location on map)	Type of structure (e.g. barn, culvert)	Accessible nesting sites (Y or N)	Number of nests present				
			BARS		CLIS		
			Active	Inactive	Active	Inactive	
<u>#1</u>	<u>barn/shed.</u>	<u>open windows = covered with mesh</u>	<u>unknown - no access to observe</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>

(Y) - front = open doorway.  
0 BARS seen entering/exiting  
1 seen in vicinity foraging

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

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



**Stanter**

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# Barn Swallow Observation Form

Project Number 160950443

Project Name: Fruitland-Winona

Date: June 25, 2012

Field Personnel: Nicole Kopysch

<b>Weather Conditions:</b>	Temp: <u>16-20°C</u>	Wind: <u>2-3</u>	Cloud: <u>100</u>	PPT: <u>∅</u>	PPT in last 24 hrs: <u>rain</u>
----------------------------	----------------------	------------------	-------------------	---------------	---------------------------------

Survey Station	Time	GPS Coordinates	# BARS observed	Type of structure (e.g. barn, culvert)	Accessible nesting sites (Y or N)	Nests	
						Active	Inactive
4	6 <sup>19</sup> -6 <sup>24</sup>		2	N.A.	Foraging only		
10	8 <sup>11</sup> -8 <sup>16</sup>		2	N.A.	Foraging only		
9	8 <sup>30</sup> -8 <sup>35</sup>		1	N.A.	Foraging only		
14	9 <sup>37</sup> -9 <sup>42</sup>		8	N.A.	Foraging only		
15	9 <sup>45</sup> -9 <sup>50</sup>		8	N.A.	Foraging only		
13	9 <sup>30</sup> -9 <sup>35</sup>		8	N.A.	Foraging only		
17	10 <sup>09</sup> -10 <sup>09</sup>		2	N.A.	Foraging only		

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

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





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**Stantec**

## Barn Swallow Observation Form

Project Number 60950443

Project Name: Hamilton - Fruitland

Date: June 25, 2012 05:30 - 10:40

Field Personnel: N. KOPYSH

<b>Weather Conditions:</b>	Temp: <u>20°C.</u>	Wind: <u>2-3</u>	Cloud: <u>10%</u>	PPT: <u>Ø</u>	PPT in last 24 hrs:
----------------------------	--------------------	------------------	-------------------	---------------	---------------------

Survey Station BARS#	Time	GPS Coordinates	# BARS observed <sup>adj</sup> in culvert	Type of structure (e.g. barn, culvert)	Accessible nesting sites (Y or N)	Nests	
						Active	Inactive
<u>Ø</u>	<u>05:30</u>	<u>0605692/ 4786278</u>	<u>Ø</u>	<u>sml. round culvert</u>	<u>N</u>	<u>Ø</u>	
<u>3</u>	<u>10:11</u>	<u>Glover Rd. see map</u>	<u>Ø</u>	<u>sml. rd. culvert</u>	<u>N</u>	<u>Ø</u>	
<u>2</u>	<u>10:32</u>	<u>Hwy 8</u>	<u>Ø</u>		<u>N</u>	<u>Ø</u>	
<u>1</u>	<u>10:34</u>	<u>Hwy 8</u>	<u>Ø</u>		<u>N</u>	<u>Ø</u>	
<u>4</u>	<u>10:37</u>	<u>Barton</u>	<u>Ø</u>	<u>see rd 1</u>	<u>N</u>	<u>Ø</u>	
<u>5</u>	<u>10:40</u>	<u>Barton</u>	<u>Ø</u>		<u>N</u>	<u>Ø</u>	

Quality Control: This form is complete () & legible ().  
Signature: *N. Kopysh*  
(Field Personnel)

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



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**Barn Swallow  
Observation Form**

Project Number 160950443

Project Name: Frontland-Winona

Date: July 10, 2012

Field Personnel: D. Graham

Weather Conditions:	Temp: <u>17-24°C</u>	Wind: <u>1</u>	Cloud: <u>100%</u>	PPT: <u>None</u>	PPT in last 24 hrs: <u>Light rain</u>
---------------------	----------------------	----------------	--------------------	------------------	---------------------------------------

Survey Station	Time	GPS Coordinates	# BARS observed	Type of structure (e.g. barn, culvert)	Accessible nesting sites (Y or N)	Nests	
						Active	Inactive
1	5 <sup>30</sup> -5 <sup>35</sup>	605665, 4785945	1	N.A.	Foraging only		
2	5 <sup>40</sup> -5 <sup>45</sup>	605685, 4786087	1	N.A.	Foraging only		
4	6 <sup>15</sup> -6 <sup>20</sup>	606042, 4786009	1	N.A.	Foraging only		
10	8 <sup>34</sup> -8 <sup>39</sup>	606501, 4785428	6	N.A.	Foraging only		
13	9 <sup>25</sup> -9 <sup>30</sup>	606896, 4785741	1	N.A.	Foraging only		
14	9 <sup>35</sup> -9 <sup>40</sup>	606866, 4785238	1	N.A.	Foraging only		
15	9 <sup>45</sup> -9 <sup>50</sup>	606832, 4785515	1	N.A.	Foraging only		
16	10 <sup>05</sup> -10 <sup>10</sup>	606922, 4785671	1	N.A.	Foraging only		
17	10 <sup>15</sup> -10 <sup>20</sup>	607028, 4785148	1	N.A.	Foraging only		

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

(Field Personnel)

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

(Project Manager)





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## Bobolink and Eastern Meadowlark Breeding Survey Form

**Stantec**

Project Number: 160950443

Project Name: Fruitland-Winona Secondary

Date: JUNE 11 2012

Field Personnel: ~~John~~ M. Oliveira

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	17°C	0	20%	Ø	Ø

Please mark transect location on map and indicate areas of species observations on map.

Transect No.: 1

Habitat: NO SUITABLE HABITAT (SHRUB SUCCESSIONAL)

Start Time: /

End Time: /

Start Point UTM: /

End Point UTM: /

Species	Tally
Bobolink	0
Eastern Meadowlark	0

Transect No.: 2

Habitat: NO SUITABLE HABITAT

Start Time: /

End Time: /

Start Point UTM: /

End Point UTM: /

Species	Tally
Bobolink	0
Eastern Meadowlark	0

Pg. \_\_\_ of \_\_\_

Signature: [Signature]

(Field Personnel)

Quality Control: This form is complete  & legible .

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

(Project Manager)

REV: 2011-06-03 / FORM 014c

Transect No.: 3 Habitat: CROP FIELD (NOT SUITABLE)  
 Start Time: 06:12 End Time: (HABITAT)  
 Start Point UTM: \_\_\_\_\_ End Point UTM: \_\_\_\_\_

Species	Tally
Bobolink	
Eastern Meadowlark	

Transect No.: 4 Habitat: HAY FIELD (UNWT)  
 Start Time: 06:22 End Time: 06:32  
 Start Point UTM: 0606019 4785708 End Point UTM: 0606132 4785774

Species	Tally
Bobolink	11 (PAIR)
Eastern Meadowlark	0

Transect No.: 5 Habitat: HAY FIELD (UNWT)  
 Start Time: 06:39 End Time: 06:50  
 Start Point UTM: 0605944 4785773 End Point UTM: 06057353 4785841

Species	Tally /
Bobolink	1 ♂
Eastern Meadowlark	0

Pg. \_\_\_ of \_\_\_

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

(Field Personnel)

Quality Control: This form is complete  & legible .

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

(Project Manager)

REV: 2011-06-03 / FORM 014c

Transect No.: 6

Habitat: FIELD

Start Time: 07:31

End Time: 07:41

Start Point UTM: 0605501 4785499

End Point UTM: 0605585 4785606

Species	Tally
Bobolink	1 ♂
Eastern Meadowlark	0

Transect No.: 7

Habitat: FIELD / MIXED HAY/SCRUB

Start Time: 08:16

End Time: 08:26

Start Point UTM: 0608732 4785631

End Point UTM: 0608910 4785646

Species	Tally
Bobolink	1 ♂
Eastern Meadowlark	0

Transect No.: 8

Habitat: WET MEADOW ? / FIELD

Start Time: 08:35

End Time: 08:45

Start Point UTM: 0605977 4785580

End Point UTM: 0606046 4785562

Species	Tally
Bobolink	0
Eastern Meadowlark	0

Pg. \_\_\_ of \_\_\_



Quality Control: This form is complete  & legible .

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

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

(Field Personnel)

(Project Manager)

REV: 2011-06-03 / FORM 014c



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## Bobolink and Eastern Meadowlark Breeding Survey Form

**Stantec**

Project Number: 60950443

Project Name: Hamilton - fruitland

Date: June 25, 2012

Field Personnel: N. KOPYSH

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

10 min pc + transects

Please mark transect location on map and indicate areas of species observations on map.

stn/  
Transect No.: 5

Habitat: corn - high degree of forbs

Start Time: 06:40

End Time: 06:50

Start Point UTM: 060612 / 4785706

End Point UTM: \_\_\_\_\_

Species	Tally
Bobolink	<u>Ø</u>
Eastern Meadowlark	<u>Ø</u>
<u>→ walked transects through field - no GAME or BOBO observed</u>	

stn/  
Transect No.: 6

Habitat: corn - high degree of forbs

Start Time: 07:00

End Time: 07:10

Start Point UTM: 605109 / 4785872

End Point UTM: \_\_\_\_\_

Species	Tally
Bobolink	<u>Ø</u>
Eastern Meadowlark	<u>Ø</u>

Pg. 1 of 1

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

N. Kopysh  
(Field Personnel)

Quality Control: This form is complete  & legible .

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

(Project Manager)

REV: 2011-06-03 / FORM 014c

Transect No.: 7

Habitat: Wm

Start Time: 07:45

End Time: 07:55

Start Point UTM: 0605500 / 4785507

End Point UTM: \_\_\_\_\_

Species	Tally
Bobolink	Ø
Eastern Meadowlark	Ø
COGR / RWBL - flocks in field - Bico	

Transect No.: 9

Habitat: CUW / cum

Start Time: 08:30 - 08:40

End Time: \_\_\_\_\_

Start Point UTM: 0605974 / 4785591

End Point UTM: \_\_\_\_\_

Species	Tally
Bobolink	Ø not suitable habitat -
Eastern Meadowlark	Ø shrub/succ. habitat
+ <sup>small</sup> patches of cum / CUW	

Transect No.: 8

Habitat: CUW

Start Time: 09:10

End Time: 09:20

Start Point UTM: 0605743 / 4735580

End Point UTM: \_\_\_\_\_

Species	Tally
Bobolink	Ø
Eastern Meadowlark	Ø

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

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





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## Bobolink and Eastern Meadowlark Breeding Survey Form

**Stantec**

Project Number: 160950443

Project Name: Fruitland-Winona

Date: July 10, 2012

Field Personnel: D. Graham

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>17-24°C</u>	<u>1</u>	<u>100</u>	<u>None</u>	<u>Light rain</u>

Please mark transect location on map and indicate areas of species observations on map.

Station  
Transect No.: 4

Habitat: Wheat field

Start Time: 6<sup>15</sup>

End Time: 6<sup>25</sup>

Start Point UTM: 606042, 4786009

End Point UTM: \_\_\_\_\_

Species	Tally
Bobolink	<u>Ø</u>
Eastern Meadowlark	<u>Ø</u>

Station  
Transect No.: 6

Habitat: Cultural meadow

Start Time: 6<sup>45</sup>

End Time: 6<sup>50</sup>

Start Point UTM: 605709, 4785872

End Point UTM: \_\_\_\_\_

Species	Tally
Bobolink	<u>3: Two males, 1 female/juvenile</u>
Eastern Meadowlark	<u>Ø</u>

Pg. \_\_\_ of \_\_\_

Quality Control: This form is complete  & legible .

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

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



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## Birding Point Counts Survey Observation Form

**Stantec**

Project Number: 160950443

Project Name: Fruitland-Winona Secondary

Date: JUNE 11 2012

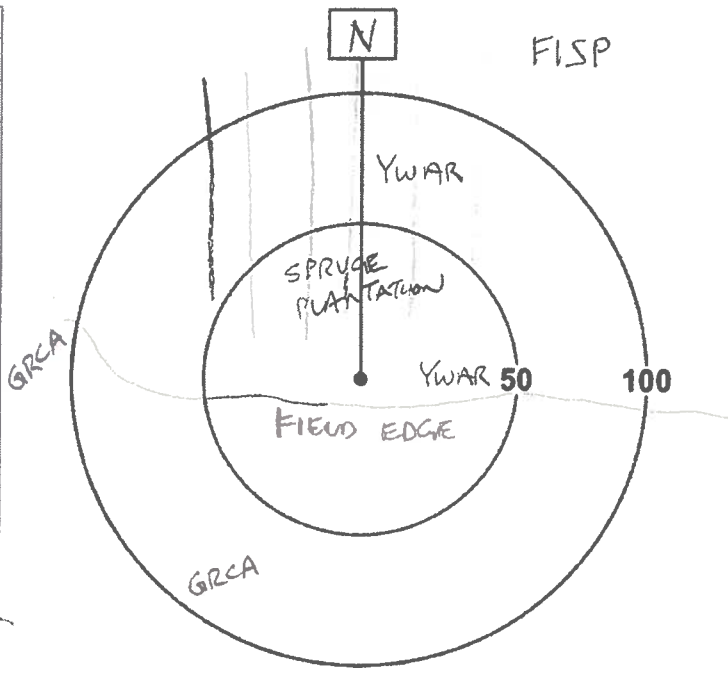
Field Personnel: Plan Area: MICHAEL OLIVEIRA  
2 Graham

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	17°C	0	20%	0	0

GPS #: T (PERSONAL GPS, MODEL: GARMIN 60CSX)

Station: 1 Feature: SPRUCE PLANTATION / FEARNUTM: 17 T 0603665  
SUCCESSION 4785945  
 Start Time: 5:26 End Time: 5:31  
 Habitat:  Forest /  Swamp /  Marsh /  Hay /  Pasture /  Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
YWAR	1	1			
GRCA		1	1		
FISP			1		



\* Height of blade sweep varies from project to project; check with project manager.  
 O - On ground; A - Below height of blade sweep; B - At height of blade sweep;  
 C - Above height of blade sweep; D - Well above height of blade sweep

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

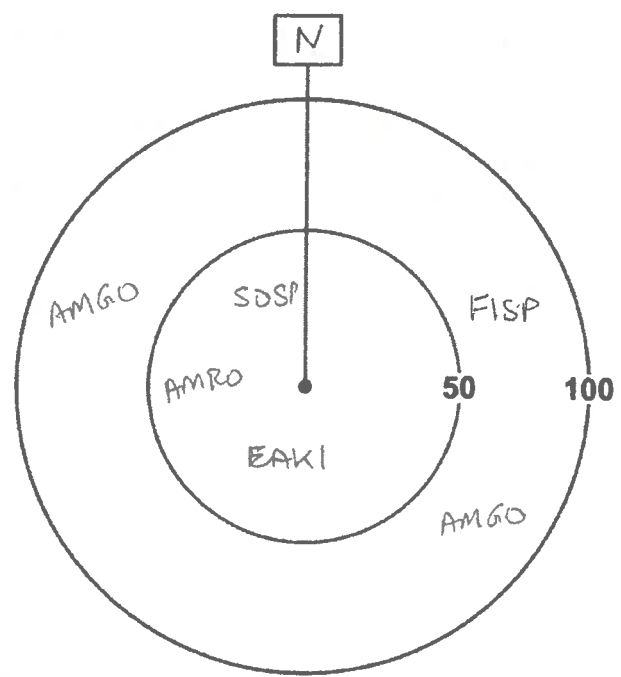
Signature: [Signature]  
 (Field Personnel)

Quality Control: This form is complete  & legible .

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

Station: 2 Feature: SPRUCe PLANTATION / EARLY UTM: 17 T 0605685  
4786087  
 Start Time: 05:41 End Time: 05:46 SUCCESSION  
 Habitat:  Forest /  Swamp /  Marsh /  Hay /  Pasture /  Crop

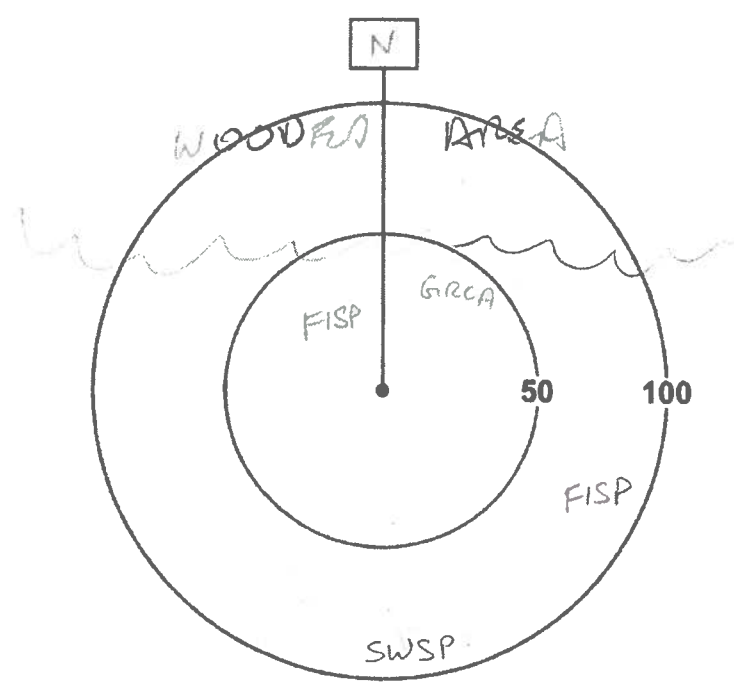
Species	<50m	50-100m	>100m	Flyovers	Height*
EAKI	1				
AMRO	1				
AMGO		2			
SDSP	1				
FISP		1			



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

Station: 3 Feature: WOODED AREA / EARLY UTM: 17 T 0605817  
4786118  
 Start Time: 05:50 End Time: 05:55 SUCCESSION  
 Habitat:  Forest /  Swamp /  Marsh /  Hay /  Pasture /  Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
FISP	1	1			
GRCA	1				
SWSP		1			



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

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

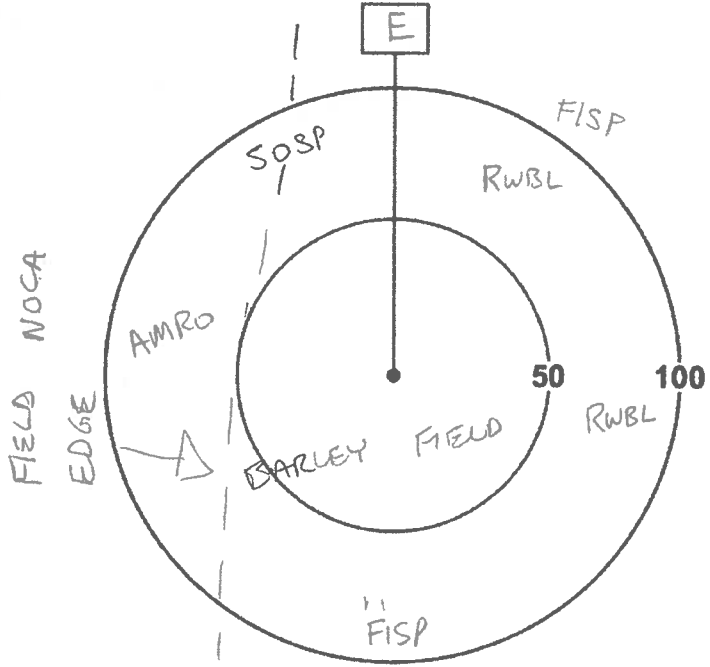
Signature: \_\_\_\_\_  
 (Field Personnel)

Quality Control: This form is complete  & legible .

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

Station: 4 Feature: CROP FIELD UTM: V7T 0606042  
4786009  
 Start Time: 06:04 End Time: 06:09  
 Habitat:  Forest /  Swamp /  Marsh /  Hay /  Pasture /  Crop

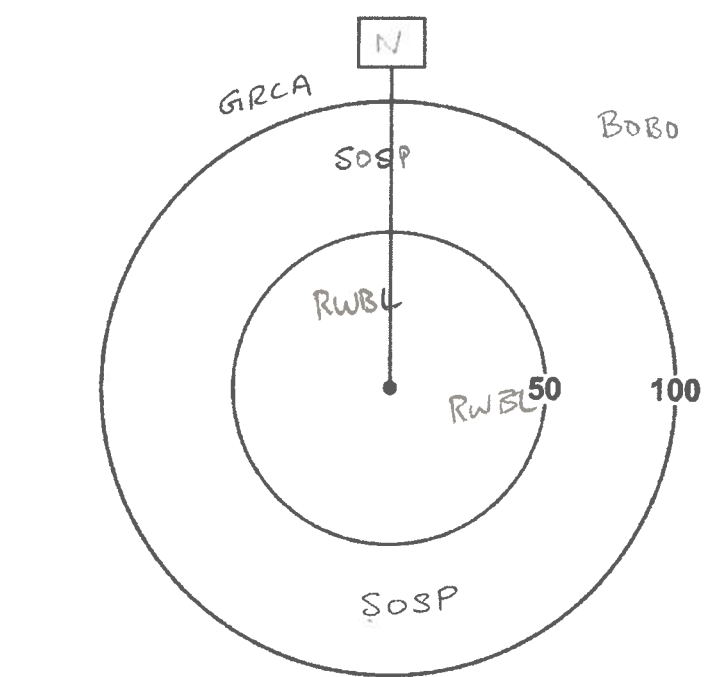
Species	<50m	50-100m	>100m	Flyovers	Height*
SOSP		1			
AMRO		1			
FISP		1	1		
RWBL		2			



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

Station: 5 Feature: OPEN FIELD UTM: 17T 0606012  
4785706  
 Start Time: 06:17 End Time: 06:22  
 Habitat:  Forest /  Swamp /  Marsh /  Hay /  Pasture /  Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
GRCA			1		
SOSP		2			
BOBO			1		
RWBL	2				



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

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

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

Station: 6

Feature: HAYFIELD

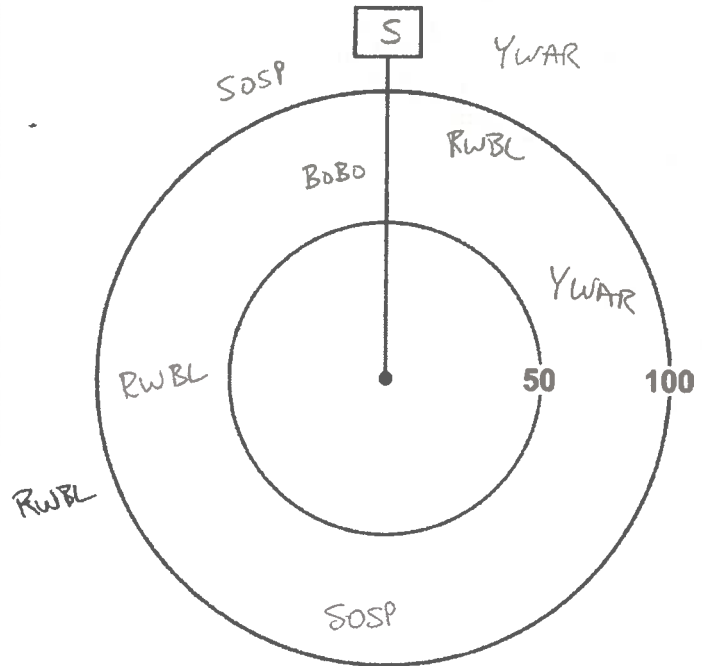
UTM: 17T 0605709  
4785872

Start Time: 06:54

End Time: 06:59

Habitat:  Forest /  Swamp /  Marsh /  Hay /  Pasture /  Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
YWAR		1	1		
SOSP		1	1		
RWBL		2	1		
BOBO		1			



\* Height of blade sweep will vary from project to project; check with project manager.  
O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
C-Above height of blade sweep; D-Well above height of blade sweep

Station: 7

Feature: WOODLOT

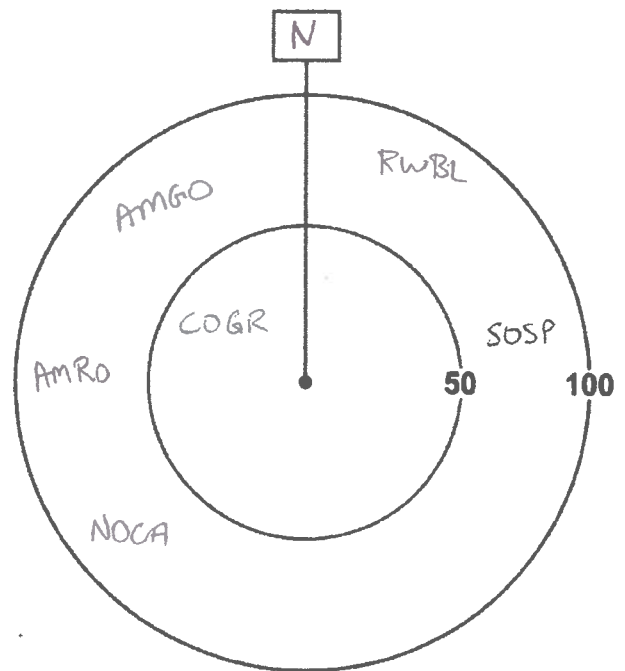
UTM: 17T 0605472  
4785472

Start Time: 07:22

End Time: 07:27

Habitat:  Forest /  Swamp /  Marsh /  Hay /  Pasture /  Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
AMGO		1			
RWBL		1			
COGR	1				
SOSP		1			
NOCA		1			
AMRO		1			



\* Height of blade sweep will vary from project to project; check with project manager.  
O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
C-Above height of blade sweep; D-Well above height of blade sweep

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

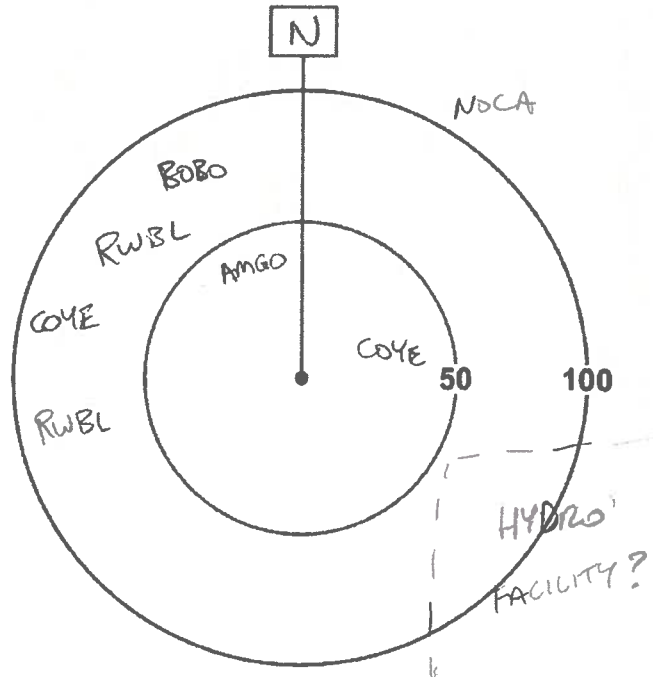
Signature: \_\_\_\_\_  
(Field Personnel)

Quality Control: This form is complete  & legible .

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

Station: 8 Feature: <sup>OPEN</sup> ~~WETLAND~~ / WETLAND MIX UTM: VTT 0605743  
 4785580  
 Start Time: 08:08 End Time: 08:13  
 Habitat:  Forest /  Swamp /  Marsh /  Hay /  Pasture /  Crop

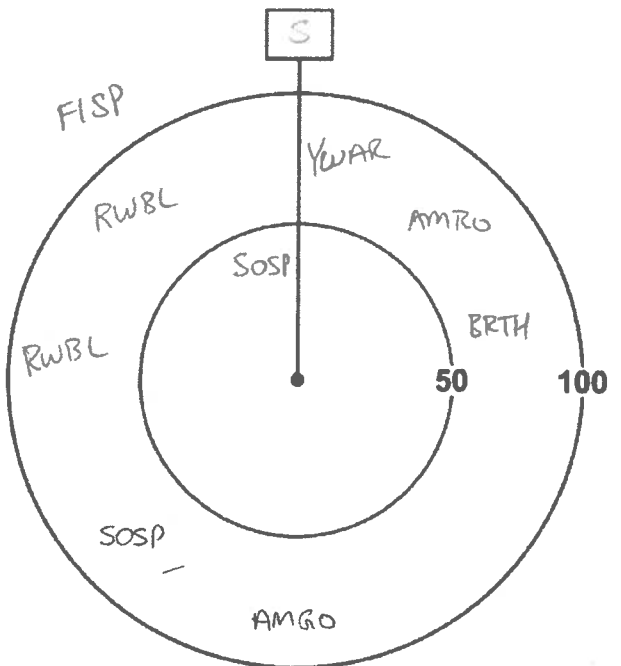
Species	<50m	50-100m	>100m	Flyovers	Height*
NOCA			1		
BOBO		1			
RWBL					
COYE	1	1			
RWBL		2			
AMGO	1				



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

Station: 9 Feature: MOIST SCRUB / FIELD UTM: VTT 0605974  
 4785591  
 Start Time: 08:30 End Time: 08:35  
 Habitat:  Forest /  Swamp /  Marsh /  Hay /  Pasture /  Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
FISP			1		
RWBL		2			
SOSP	1	1			
YWAR		1			
AMRO		1			
BRTH		1			
AMGO		1			



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

Page \_\_\_ of \_\_\_  
 Signature: \_\_\_\_\_

(Field Personnel)

Quality Control: This form is complete  & legible .  
 Signature: \_\_\_\_\_

(Project Manager)

Station: 10

Feature: WOODED AREA ADJACENT TO SOCCER FIELD

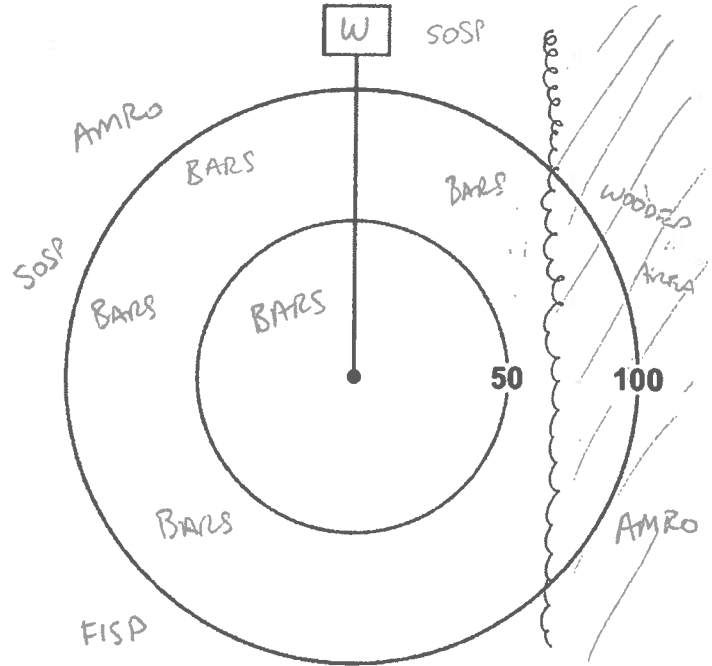
UTM: 17T 0606501 4785428

Start Time: 09:13

End Time: 09:18

Habitat:  Forest /  Swamp /  Marsh /  Hay /  Pasture /  Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
BARS	1	4			
AMRO			1		
SOSP			2		
FISP			1		



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

Station: 11

Feature: WOODLOT W SMALL CREEK

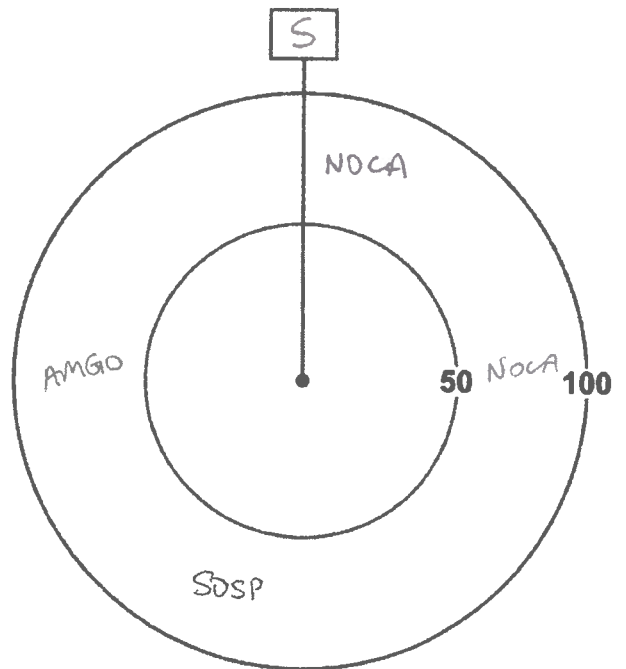
UTM: 17T 0606387 4785485

Start Time: 09:26

End Time: 09:31

Habitat:  Forest /  Swamp /  Marsh /  Hay /  Pasture /  Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
NOCA		2			
AMGO		1			
SDSP		1			



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

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

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

(Field Personnel)

Quality Control: This form is complete  & legible .

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

(Project Manager)

REV: 2011-05-04 / FORM 020

BBS



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

**Birding Point Counts Survey  
 Observation Form**

**Stantec**

Project Number: 60950443

Project Name: HAMILTON

Date: June 12, 2012

Field Personnel: N. KOPYSH

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>20°C</u>	<u>1-2</u>	<u>100%</u>	<u>Ø</u>	<u>rain overnight</u>

GPS #: T

BBS - 5min pc

Station: 12

Feature: riparian corridor

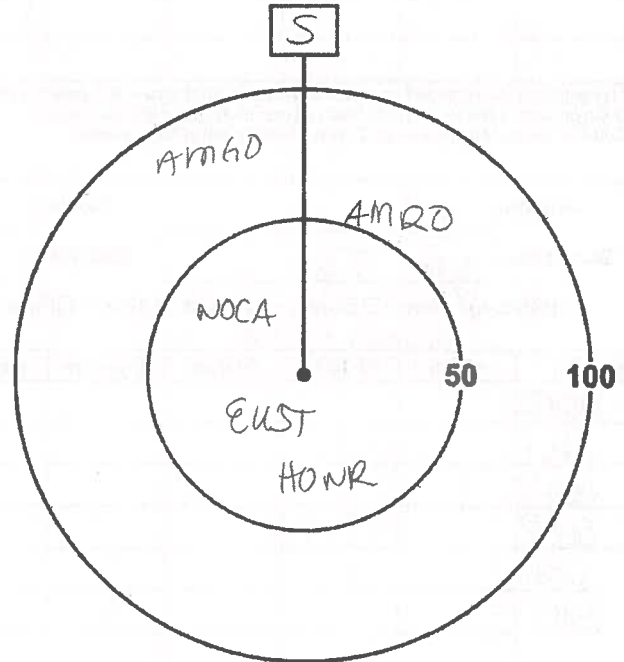
UTM: \_\_\_\_\_

Start Time: 06:00

End Time: 06:05

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
AMGD		1			
EUSP	1				
HOWR	1				
AMRD		1			
NOCA	1				



\* Height of blade sweep varies from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

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

*N. Kopysh*

(Field Personnel)

Quality Control: This form is complete  & legible .

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

(Project Manager)



17T 0606896, 4785741

Station: 13

Feature: \_\_\_\_\_

UTM: \_\_\_\_\_

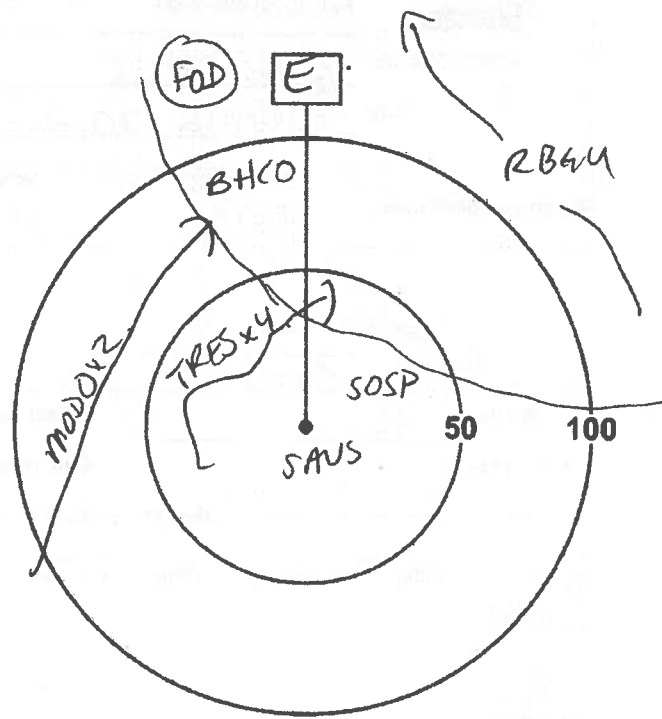
Start Time: 06:30

End Time: 06:35

Habitat:  Forest /  Swamp /  Marsh /  Hay /  Pasture /  Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
TRES				4	
MODD				2	
SDSP	1				
SANS	1				

BARKING



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

Station: 14

Feature: \_\_\_\_\_

UTM: 17T 0606866

Start Time: 06:56

End Time: 07:01

4785638

Habitat:  Forest /  Swamp /  Marsh /  Hay /  Pasture /  Crop

open field

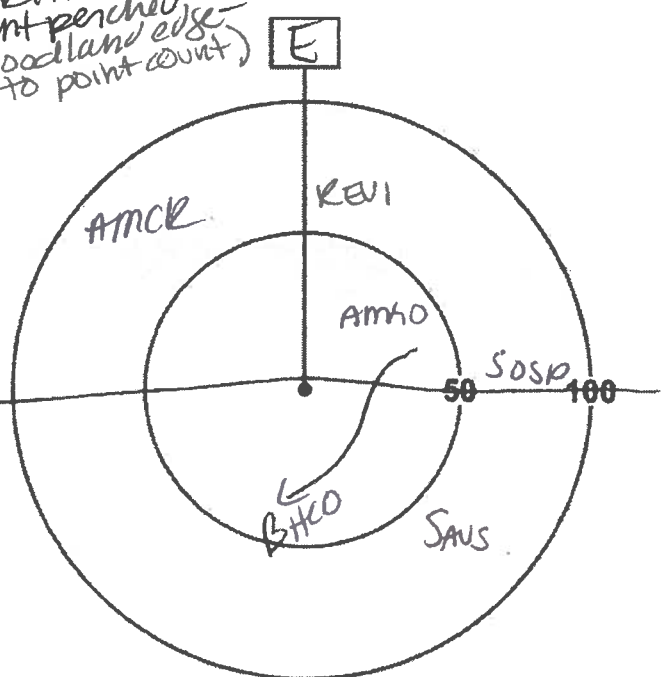
Species	<50m	50-100m	>100m	Flyovers	Height*
AMCR		1			
REVI		1			
AMHO	1				
SDSP		1			
SANS		1			
BHCO				1	

(not RTHA present perched on woodland edge prior to point count)

flew off

FOD

open field



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

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

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

(Field Personnel)

Quality Control: This form is complete  & legible .

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

(Project Manager)

REV: 2011-05-04 / FORM 020

Station: 15

Feature: \_\_\_\_\_

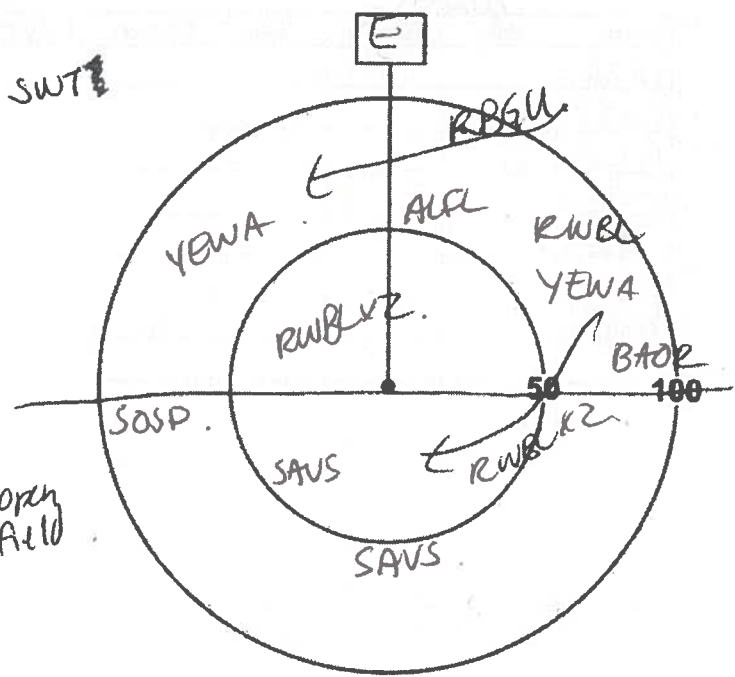
UTM: 17T 060683Z  
4785515

Start Time: 07:15

End Time: 07:20

Habitat:  Forest /  Swamp /  Marsh /  Hay /  Pasture /  Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
YENA		2			
RWB	2	1		2	
ALFL		1			
BAOR		1			
RBGU				1	
SOSP		1			
SAVS	1	1			



\* Height of blade sweep will vary from project to project; check with project manager.  
O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
C-Above height of blade sweep; D-Well above height of blade sweep

Station: 16 - community centre

Feature: \_\_\_\_\_

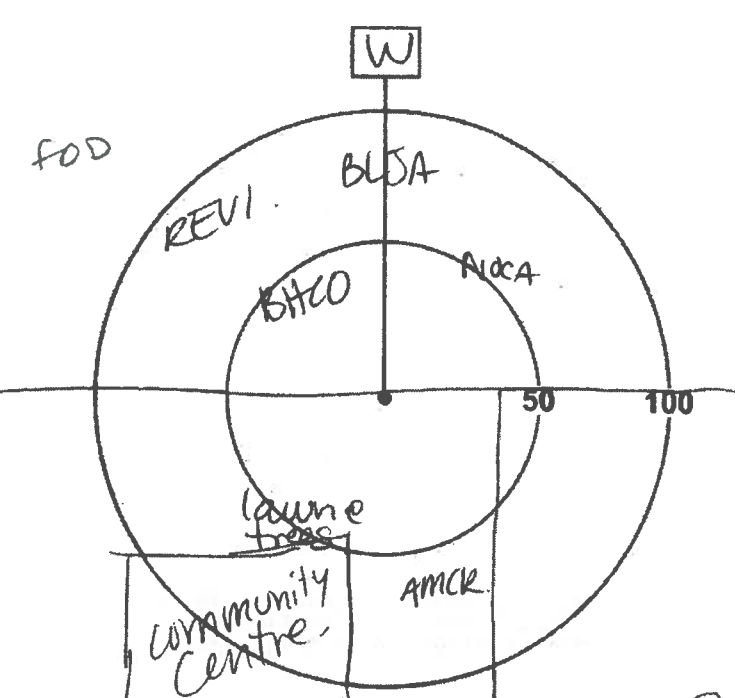
UTM: 0606992  
4785671

Start Time: 07:40

End Time: 07:45

Habitat:  Forest /  Swamp /  Marsh /  Hay /  Pasture /  Crop  
lawn

Species	<50m	50-100m	>100m	Flyovers	Height*
REVI		1			
BLJA		1			
BHCO	1				
NOCA		1			
AMCR		1			



\* Height of blade sweep will vary from project to project; check with project manager.  
O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
C-Above height of blade sweep; D-Well above height of blade sweep

Page 2 of 2

Signature: [Signature]

(Field Personnel)

Quality Control: This form is complete  & legible .

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

(Project Manager)

birds seen  
juvs

ITT

Station: 17 - Community Centre. Feature: \_\_\_\_\_

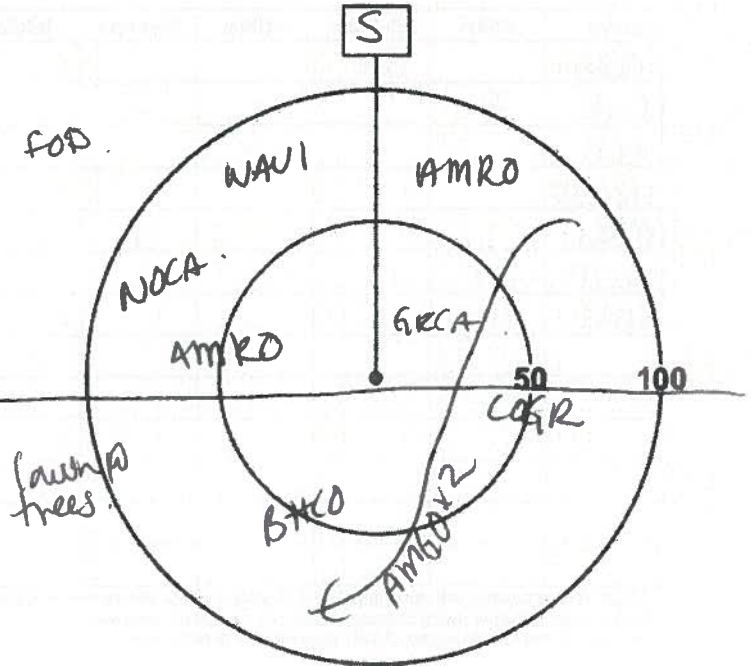
UTM: 0607028  
4785448

Start Time: 07:50 End Time: 07:55

Habitat:  Forest /  Swamp /  Marsh /  Hay /  Pasture /  Crop

lawn.

Species	<50m	50-100m	>100m	Flyovers	Height*
NOCA		1			
AMRO	1	1			
GRCA	1				
BHCO		1			
COGR	1				
WAVI		1			
AMBO				2	



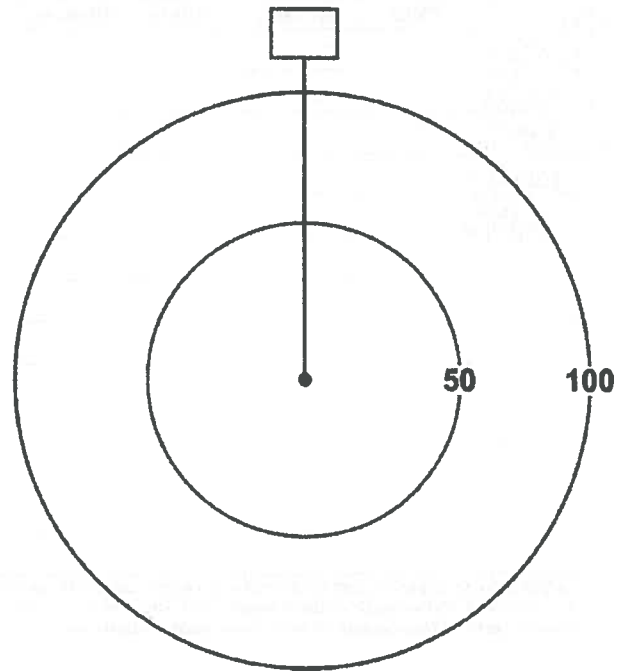
\* Height of blade sweep will vary from project to project; check with project manager.  
O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
C-Above height of blade sweep; D-Well above height of blade sweep

Station: \_\_\_\_\_ Feature: \_\_\_\_\_ UTM: \_\_\_\_\_

Start Time: \_\_\_\_\_ End Time: \_\_\_\_\_

Habitat:  Forest /  Swamp /  Marsh /  Hay /  Pasture /  Crop

Species	<50m	50-100m	>100m	Flyovers	Height*



\* Height of blade sweep will vary from project to project; check with project manager.  
O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
C-Above height of blade sweep; D-Well above height of blade sweep

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

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

Quality Control: This form is complete  & legible .

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



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

## Birding Point Counts Survey Observation Form

**Stantec**

Project Number: 60950443

Project Name: Hamilton - fruitland

Date: June 25, 2012 05.30 -

Field Personnel: N. Kopyso

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>16° ↑ 20°</u>	<u>2-3</u>	<u>10%</u>	<u>∅</u>	<u>rain</u>

(incr. to 4 by 9.45)

GPS #: T

Station: 12

Feature: \_\_\_\_\_

UTM: 17T

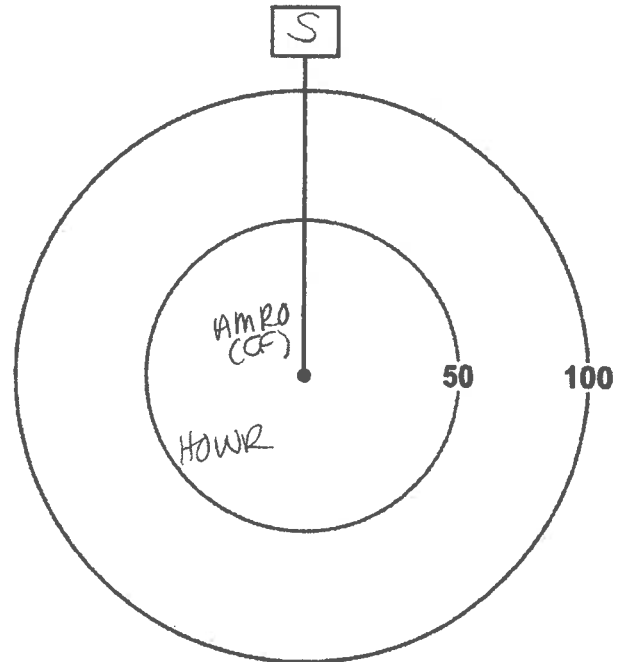
Start Time: 05 30

End Time: 05 35

0605692  
4786278

Habitat:  Forest /  Swamp /  Marsh /  Hay /  Pasture /  Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
AMCR	1				
HOWR	1				



\* Height of blade sweep varies from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

Page 1 of 5  
 Signature: \_\_\_\_\_

(Handwritten Signature)  
 \_\_\_\_\_  
 (Field Personnel)

Quality Control: This form is complete  & legible .

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

Station: 2

Feature: \_\_\_\_\_

UTM: see Round 1

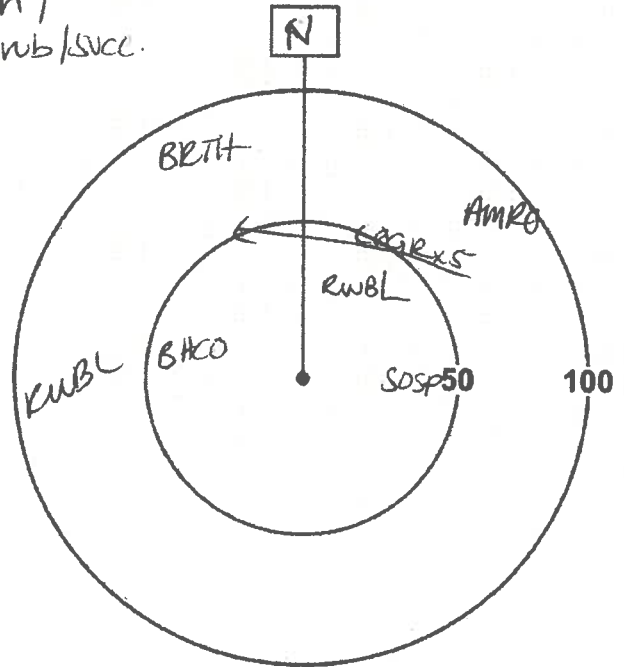
Start Time: 05:58

End Time: 06:03

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
BRTH		1			
BHCO	1				
RWBL	1	1			
COGR				5	
AMRO		1			
SOSP	1				

Wm /  
Shrub/succ.



\* Height of blade sweep will vary from project to project; check with project manager.  
O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
C-Above height of blade sweep; D-Well above height of blade sweep

Station: 1

Feature: \_\_\_\_\_

UTM: see round 1

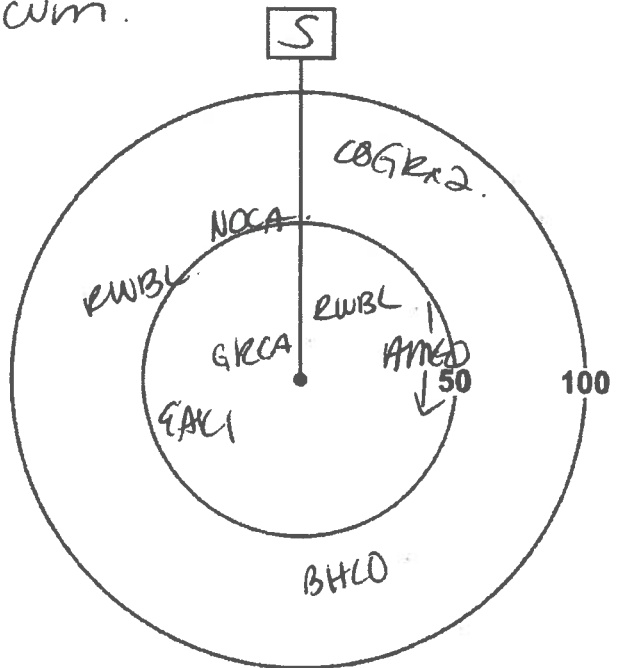
Start Time: 07:15

End Time: 07:20

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
COGR		2			
NOCA		1			
RWBL	1	1			
GRCA	1				
EAKI	1				
AMED				1	
BHCO		1			

shrub/succ /  
Wm.



\* Height of blade sweep will vary from project to project; check with project manager.  
O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
C-Above height of blade sweep; D-Well above height of blade sweep

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

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

(Field Personnel)

Quality Control: This form is complete  & legible .

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

(Project Manager)

REV: 2011-05-04 / FORM 020

Station: 5

Feature: \_\_\_\_\_

UTM: see round 1

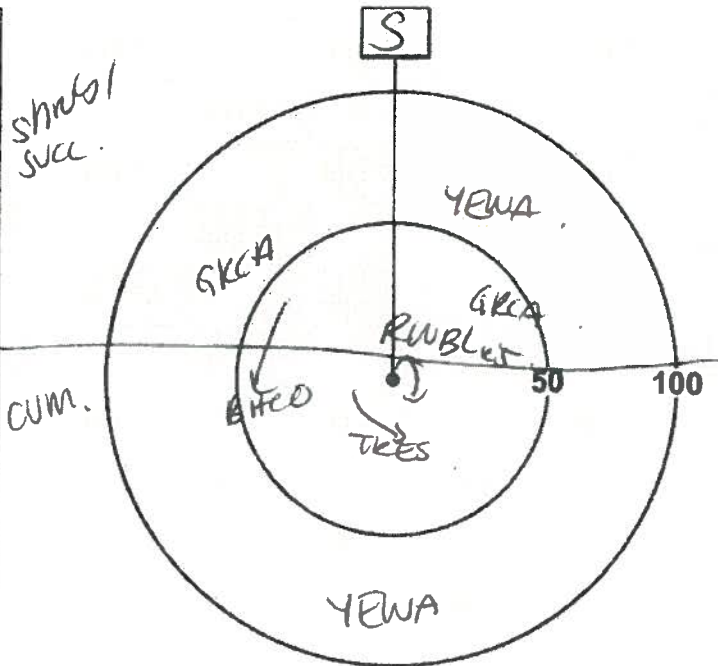
Start Time: 06:35

End Time: 06:40

-NO BARS

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
GRCA	1	1			
YENA		2			
BHCO	1				
RWBL	5				
TRES				1	



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

Station: 6

Feature: \_\_\_\_\_

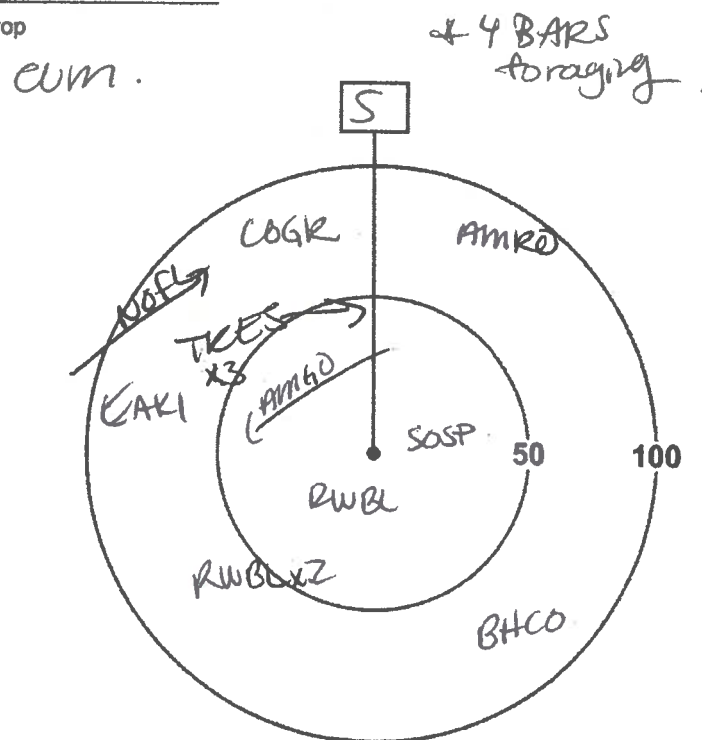
UTM: see Round 1

Start Time: 06:55

End Time: 07:00

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
COGR		1			
AMRD		1			
TRES				3	
AMRD				1	
SOSP	1				
RWBL	1	2			
BHCO		1			
EAKI		1			
NOFL				1	



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

Page 2 of 5

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

(Field Personnel)

Quality Control: This form is complete  & legible .

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

(Project Manager)

REV: 2011-05-04 / FORM 020

Station: 3

Feature: \_\_\_\_\_

UTM: \_\_\_\_\_

Start Time: 06:09

End Time: 06:14

Habitat:  Forest /  Swamp /  Marsh /  Hay /  Pasture /  Crop

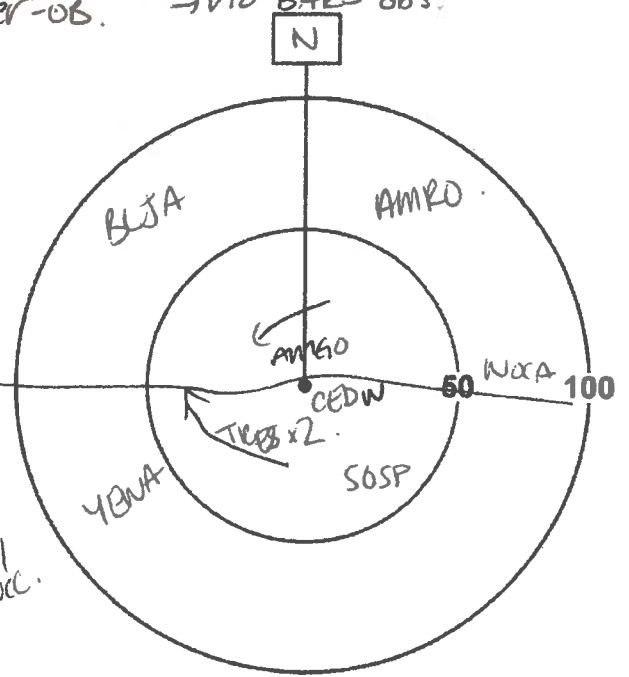
→ No BOBO/GAME habitat  
→ No BARS obs.

Species	<50m	50-100m	>100m	Flyovers	Height*
BLJA		1			
AMRO		1			
AMGO				1	
CEDW	1				
TRES				2	
YBNA		1			
SOSP	1				
NOCA		1			

-deer-OB.

FOD

Cum/ Shrub/ succ.



\* Height of blade sweep will vary from project to project; check with project manager.  
O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
C-Above height of blade sweep; D-Well above height of blade sweep

Station: 4

Feature: \_\_\_\_\_

UTM: \_\_\_\_\_

Start Time: 06:19

End Time: 06:24

Habitat:  Forest /  Swamp /  Marsh /  Hay /  Pasture /  Crop

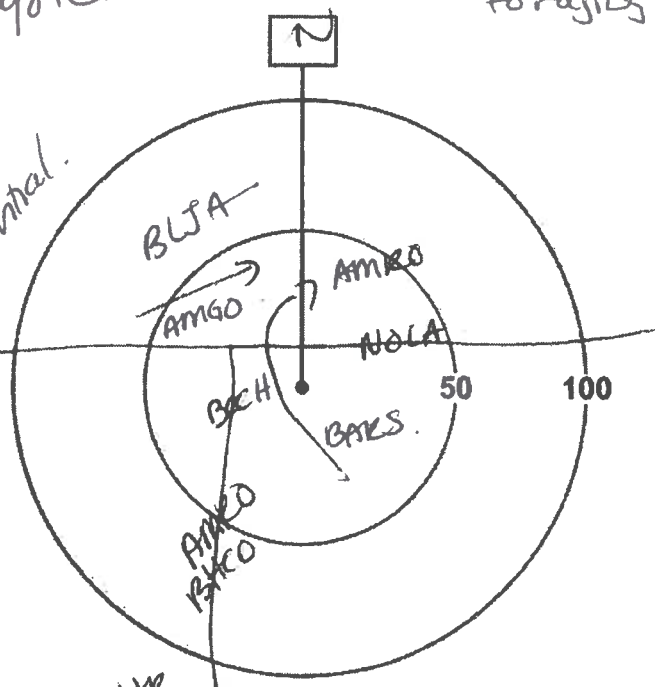
\* BARS x2 for raptors

Species	<50m	50-100m	>100m	Flyovers	Height*
BLJA		1			
AMED				1	
AMRO	2				
NOCA	1				
BECH	1				
BARS				2	
BHCO		1			

-coyote.

RDP/ Residential.

HR



\* Height of blade sweep will vary from project to project; check with project manager.  
O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
C-Above height of blade sweep; D-Well above height of blade sweep

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

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

(Field Personnel)

Quality Control: This form is complete  & legible .

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

(Project Manager)

Station: 7

Feature: \_\_\_\_\_

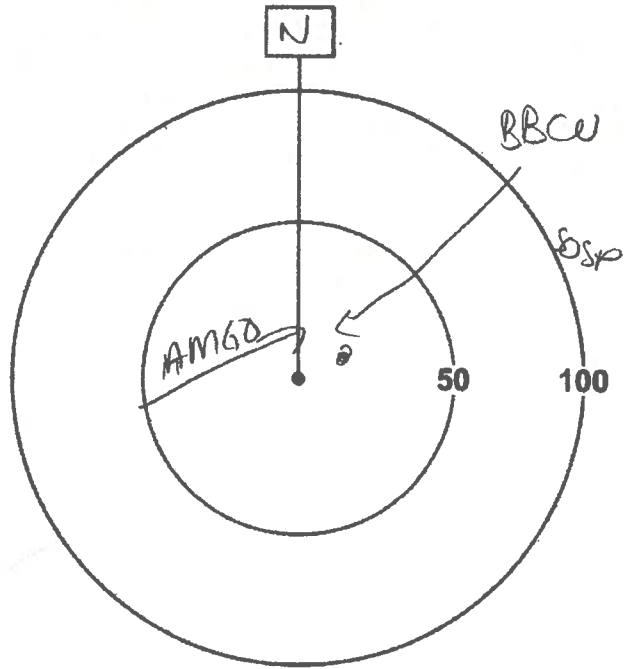
UTM: \_\_\_\_\_

Start Time: 07:35

End Time: 07:40

Habitat:  Forest /  Swamp /  Marsh /  Hay /  Pasture /  Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
AMGO				1	
BBCU	1				
SOSP			1		



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

Station: 11

Feature: \_\_\_\_\_

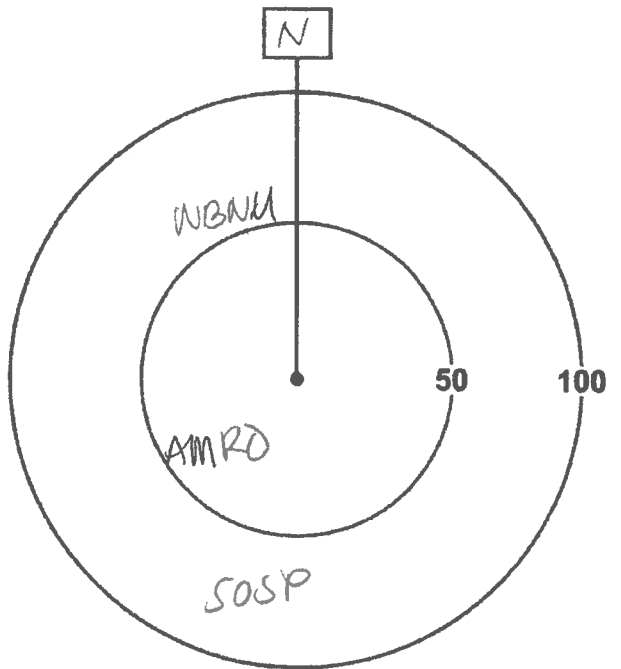
UTM: \_\_\_\_\_

Start Time: 08:04

End Time: 08:09

Habitat:  Forest /  Swamp /  Marsh /  Hay /  Pasture /  Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
WBNW		1			
AMRO	1				
SOSP		1			



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

Page 3 of 5

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

Quality Control: This form is complete  & legible .

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



Station: 10

Feature: \_\_\_\_\_

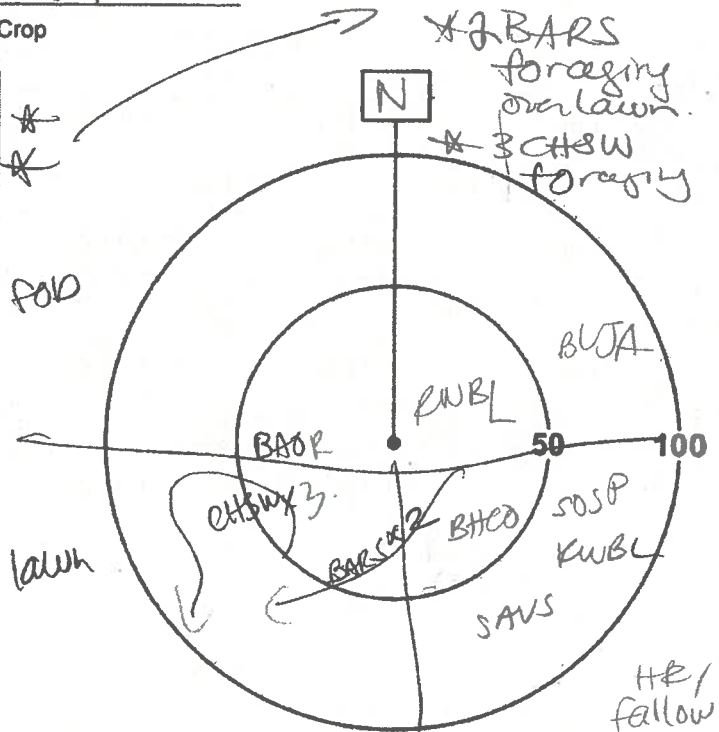
UTM: \_\_\_\_\_

Start Time: 08:11

End Time: 08:16

Habitat:  Forest /  Swamp /  Marsh /  Hay /  Pasture /  Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
BARS				2	
CHSW				3	
BAOR	1				
RWBL	1	1			
BHCO	1				
SOSP		1			
SAVS		1			
BLJA		1			



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

Station: 9

Feature: \_\_\_\_\_

UTM: \_\_\_\_\_

Start Time: 08:30

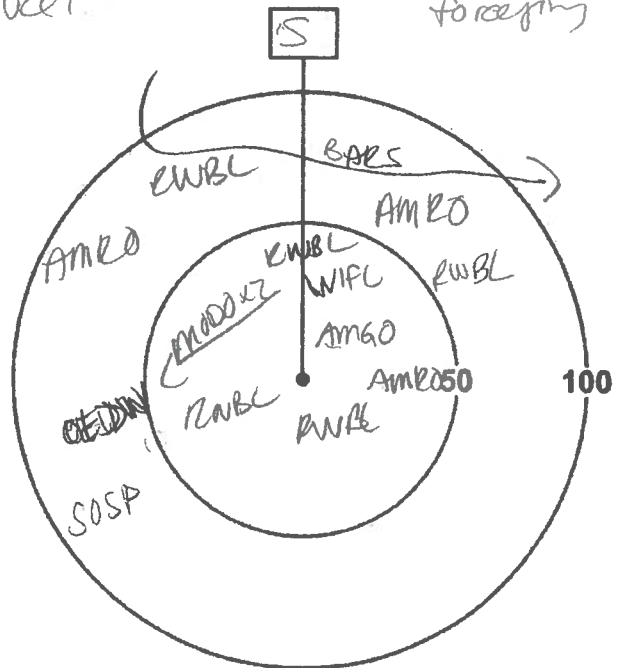
End Time: 08:35

Habitat:  Forest /  Swamp /  Marsh /  Hay /  Pasture /  Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
BARS				1	
AMRO	1	2			
MOGO				2	
AMGO	1				
RWBL	3	2			
WIFL	1				
SOSP		1			

shrub/mamm

1 BARS foraging



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

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

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

(Field Personnel)

Quality Control: This form is complete  & legible .

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

(Project Manager)

REV: 2011-05-04 / FORM 020

Station: 14

Feature: \_\_\_\_\_

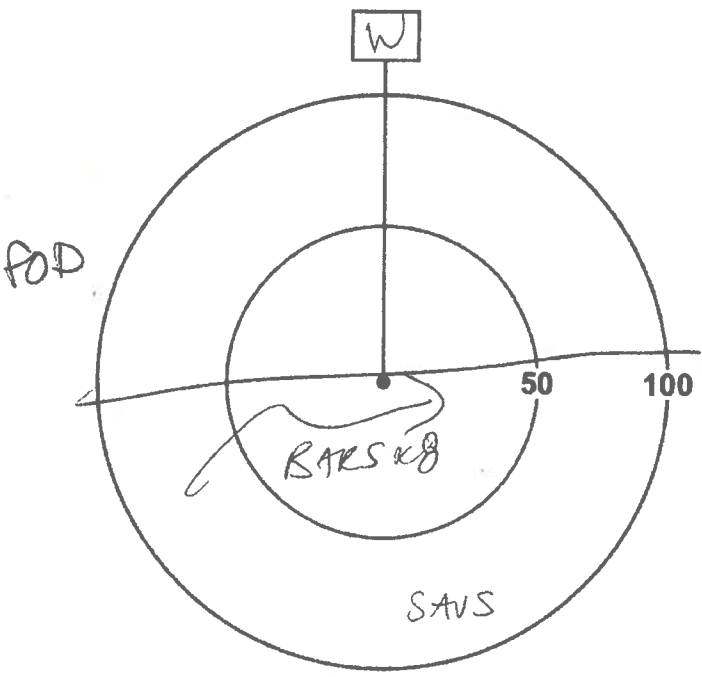
UTM: \_\_\_\_\_

Start Time: 09:37

End Time: 09:42

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
BARS				8	
SAUS		1			



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

Station: 15

Feature: \_\_\_\_\_

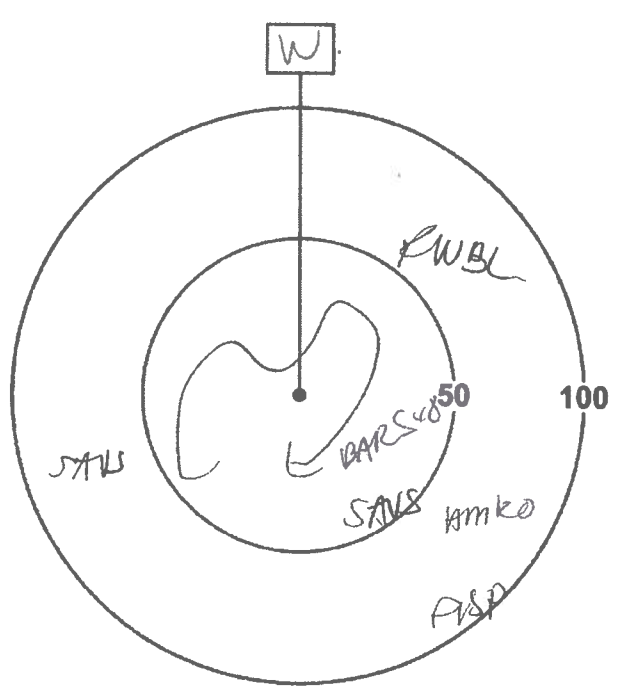
UTM: \_\_\_\_\_

Start Time: 09:45

End Time: 09:50

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
BARS				8	
SAUS	1	1			
FISP		1			
AMKO		1			
RNBL		1			



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

Page 4 of 5

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

(Field Personnel)

Quality Control: This form is complete  & legible .

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

(Project Manager)

Station: 8

Feature:

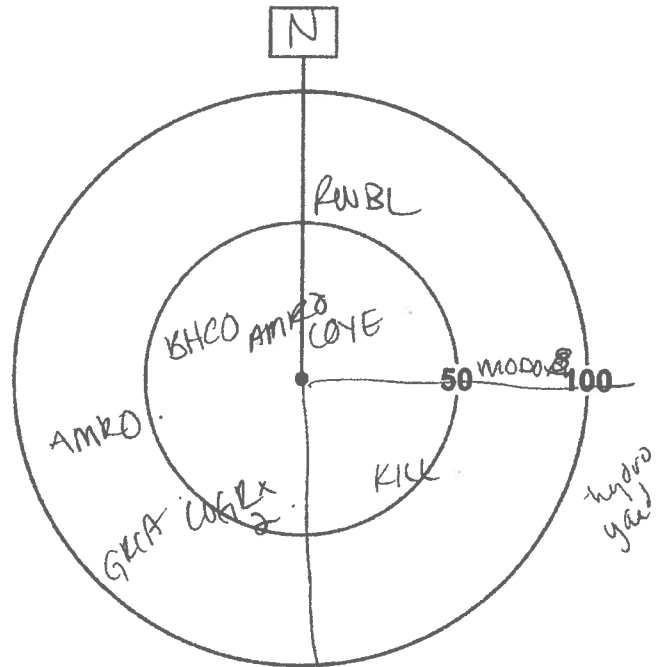
UTM: 0605757  
4785545

Start Time: 09:05

End Time: 09:10

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
RWBL		1			
BHCO	1				
AMRO	1	1			
COYE	1				
MODD			8		
KILL	1				
GRCA		1			
COGR	2				



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

Station: 13

Feature:

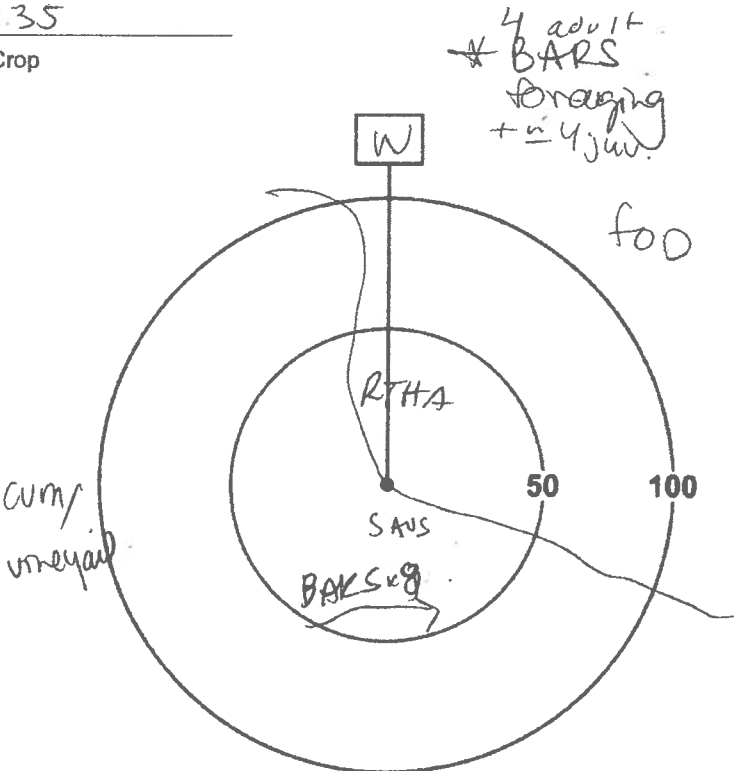
UTM:

Start Time: 09:30

End Time: 09:35

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop  
cum

Species	<50m	50-100m	>100m	Flyovers	Height*
RTHA	1				
BARS				8	
SAVS	1				



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

Page \_\_\_ of \_\_\_  
 Signature: \_\_\_\_\_

(Field Personnel)

Quality Control: This form is complete  & legible .  
 Signature: \_\_\_\_\_

(Project Manager)  
 REV: 2011-05-04 / FORM 020

Station: ~~15~~ 16

Feature: \_\_\_\_\_

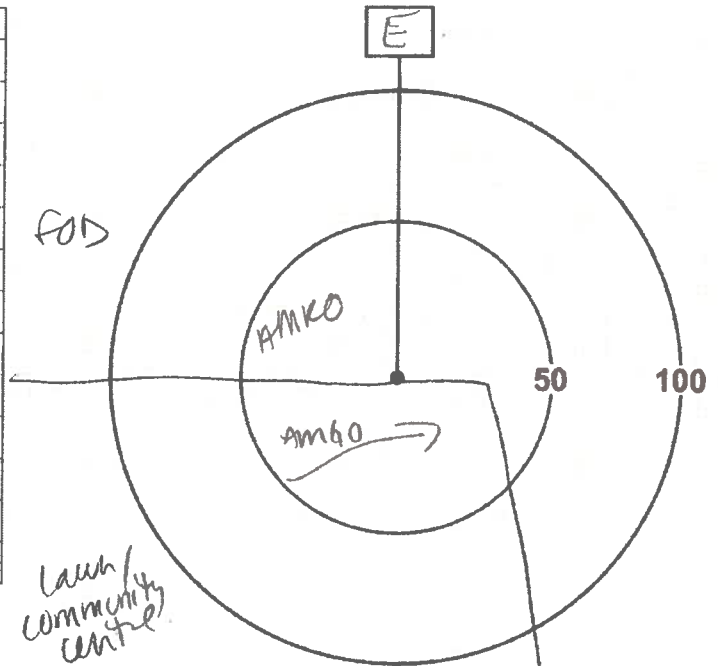
UTM: \_\_\_\_\_

Start Time: 09:56

End Time: 10:01

Habitat:  Forest /  Swamp /  Marsh /  Hay /  Pasture /  Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
AMKO	1				
AMGO				1	



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

Station: ~~16~~ 17

Feature: \_\_\_\_\_

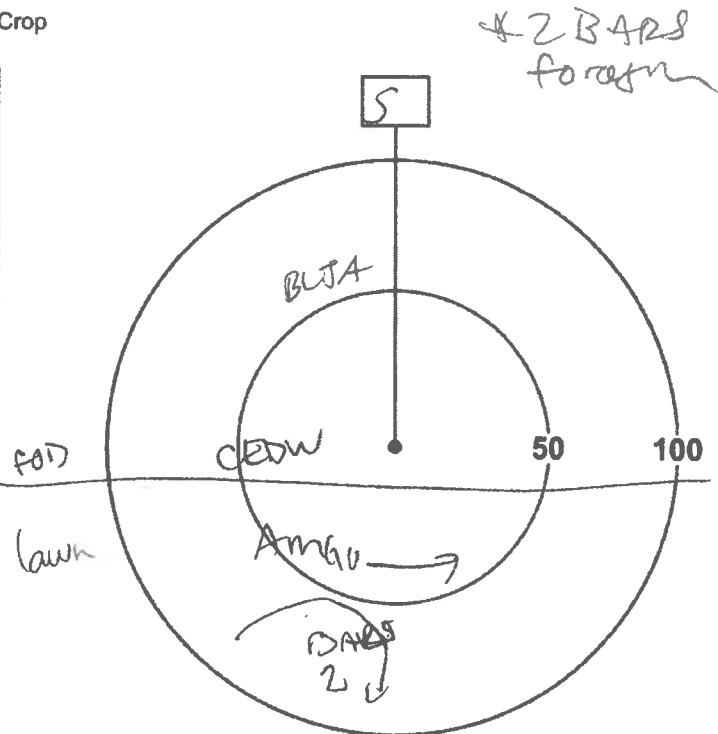
UTM: \_\_\_\_\_

Start Time: 10:04

End Time: 10:09

Habitat:  Forest /  Swamp /  Marsh /  Hay /  Pasture /  Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
AMGO				1	
CEDN	1				
BLJA		1			
BARS				2	



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

Page 5 of 5

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

(Field Personnel)

Quality Control: This form is complete  & legible .

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

(Project Manager)



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

## Birding Point Counts Survey Observation Form

**Stantec**

Project Number: 160950443

Project Name: Fruitland-Winona

Date: July 10, 2012

Field Personnel: D. Graham

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>17-24°C</u>	<u>1</u>	<u>100</u>	<u>None</u>	<u>light rain</u>

GPS #: T

Station: 1

Feature: \_\_\_\_\_

UTM: 605665

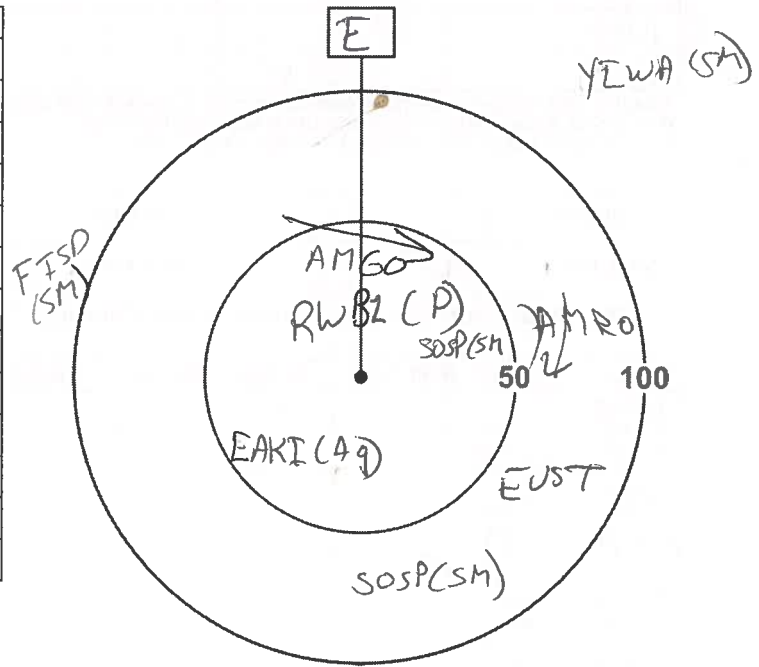
Start Time: 5:30

End Time: 5:35

4785945

Habitat:  Forest /  Swamp /  Marsh /  Hay /  Pasture /  Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
RWBL	P				
EAKI	A <sub>g</sub>			✓	
AMGO	✓				
SOSP	SM	SM			
EUST	✓				
AMRO		✓		✓	
YEWA			SM		
BASW	✓			✓	
FISP			SM		



\* Height of blade sweep varies from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

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

Quality Control: This form is complete  & legible .

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

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

Station: 2

Feature:

UTM: 605685

Start Time: 5:40

End Time: 5:45

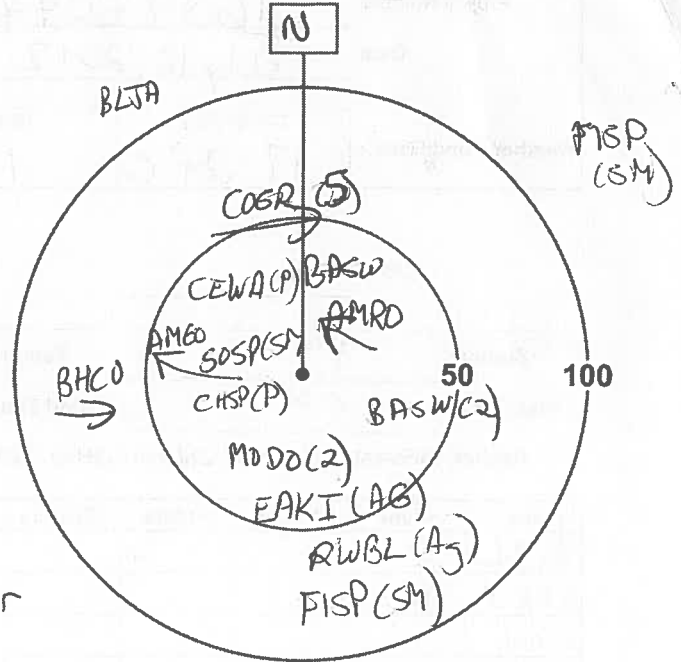
4786087

Habitat:  Forest /  Swamp /  Marsh /  Hay /  Pasture /  Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
COGR	✓			✓	
CENA	P				
BASW	✓			✓	
AMRO	✓			✓	
AMGO	✓			✓	
SOSP	SM				
CHSP	P				
MODD	P				
EAKT	AG				
RWBL	Ag	Ag			
FISP		SM			
BHCO		✓		✓	
BLJA			✓		

\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

Deer



Station: 3

Feature:

UTM: 605817

Start Time: 6:00

End Time: 6:05

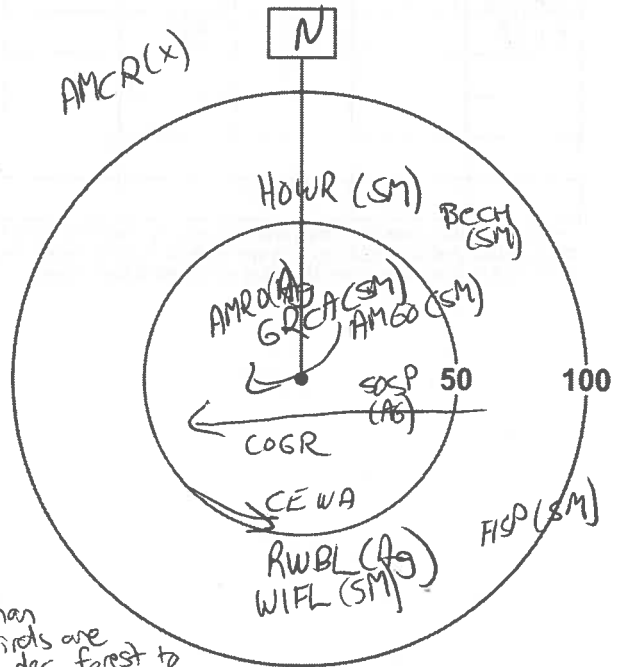
4786118

Habitat:  Forest /  Swamp /  Marsh /  Hay /  Pasture /  Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
AMCR			✓		
HOWR	✓ SM				
AMRO	Ag				
GRCA	SM				
AMGO	SM				
SOSP	Ag				
COGR	✓			✓	
BECH		SM			
CENA	✓			✓	
RWBL		Ag			
WIFL		SM			
FISP		SM			

\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

Other than house wrens & robins, birds are avoiding dec. forest to north



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

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

(Field Personnel)

Quality Control: This form is complete  & legible .

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

(Project Manager)

REV: 2011-05-04 / FORM 020

Station: 4

Feature: C

UTM: 606042

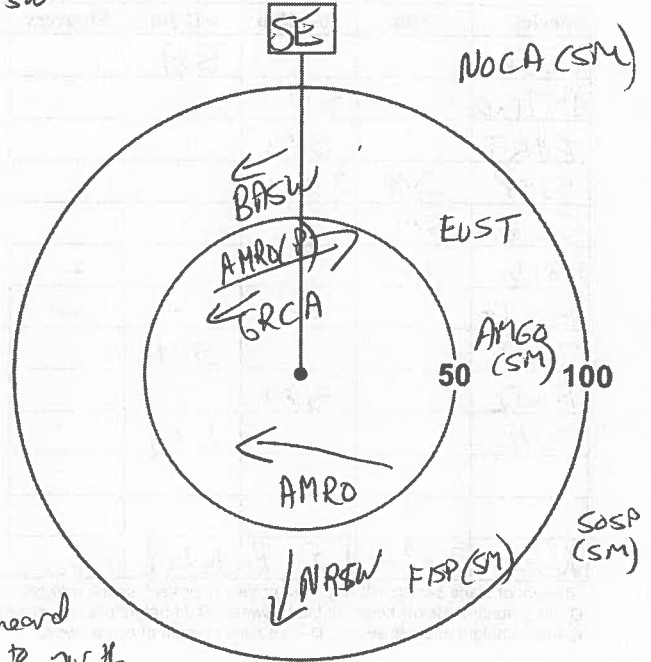
Start Time: 6<sup>15</sup>

End Time: 6<sup>20</sup>

4786009

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop grain to SW.

Species	<50m	50-100m	>100m	Flyovers	Height*
NASW		✓		✓	
NOCA			SM		
EUST		✓			
AMRO	✓	P		✓	
GRCA	✓			✓	
AMGO		SM			
NASW		✓			
FISP		SM			
SOSP			SM		
No bobolinks or meadowlark					



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

Treedog heard in forest to north

Station: 5

Feature:

UTM: 606012

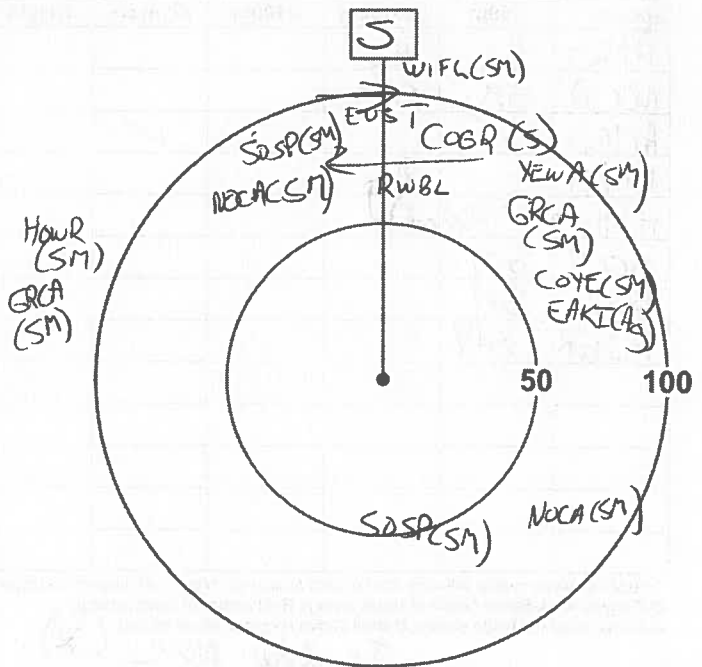
Start Time: 6<sup>30</sup>

End Time: 6<sup>35</sup>

4785872

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop Cultural meadow

Species	<50m	50-100m	>100m	Flyovers	Height*
WIFL			SM		
EUST		✓		✓	
COBR		✓		✓	
SOSP	SM	SM			
NOCA		2 SM			
RWBL		✓			
YENFA		SM			
GRCA		SM	SM		
COYB		SM			
EAKI		Ag			
HOWR			SM		



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

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

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

(Field Personnel)

Quality Control: This form is complete  & legible .

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

(Project Manager)

Station: 6

Feature:

UTM: 605709

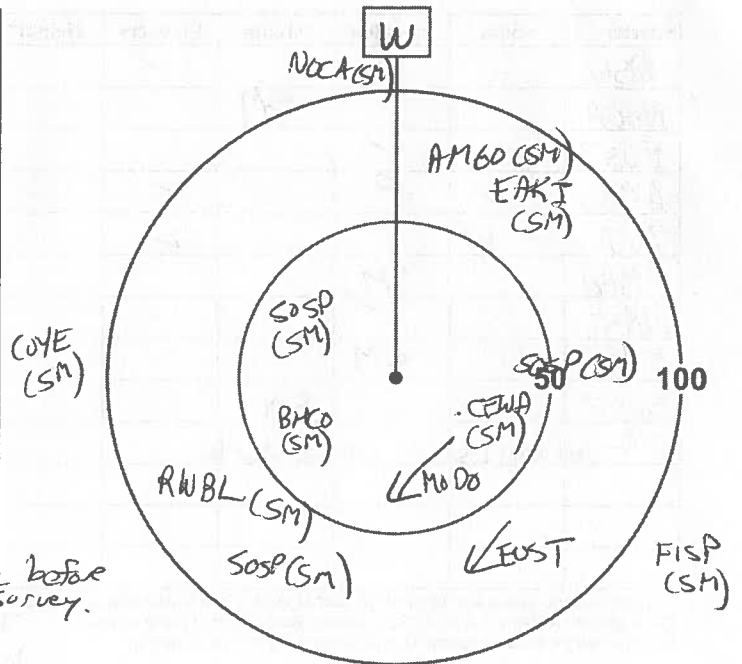
Start Time: 6:45

End Time: 6:50

4785472

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop CUM

Species	<50m	50-100m	>100m	Flyovers	Height*
NOCA			SM		
AMGO		SM			
EAKI		SM			
SOSP	SM	2SM			
CEWA	SM				
MoDo	✓			✓	
FUST		✓		✓	
FISP			SM		
RWBL		SM			
COYE			SM		



Note: 2 ♂ & 1 ♀ B. belink flew over me before survey.  
 \* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

Station: 7

Feature:

UTM: 605472

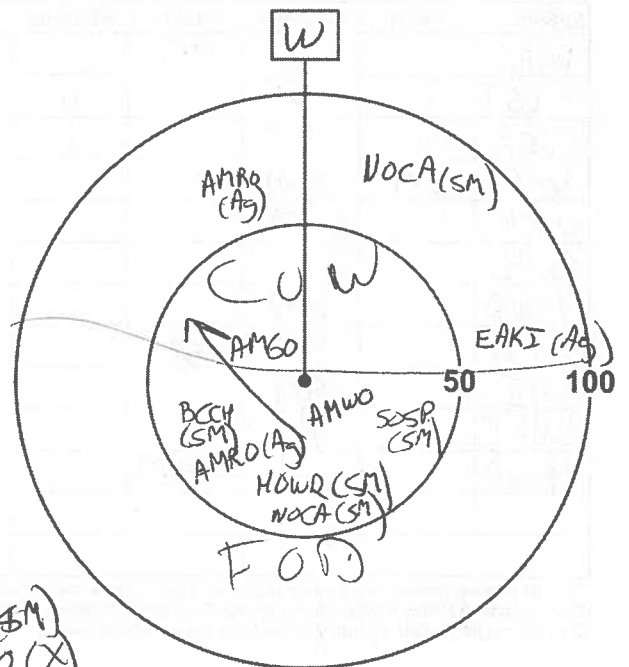
Start Time: 7:15

End Time: 7:20

4785472

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
AMRO	Ag	Ag			
NOCA	SM	SM			
AMGO	✓			✓	
EAKI		Ag			
AMWO	✓ (A) (SM)				
BCCW	SM				
SOSP	SM				
HOWR	SM				



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

Incidental: NOFL (X), WAWI (SM), DOWO (X)

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

Quality Control: This form is complete  & legible .

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

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

(Field Personnel)

(Project Manager)



Station: \_\_\_\_\_

Feature: \_\_\_\_\_

UTM: 605743

Start Time: \_\_\_\_\_

End Time: \_\_\_\_\_

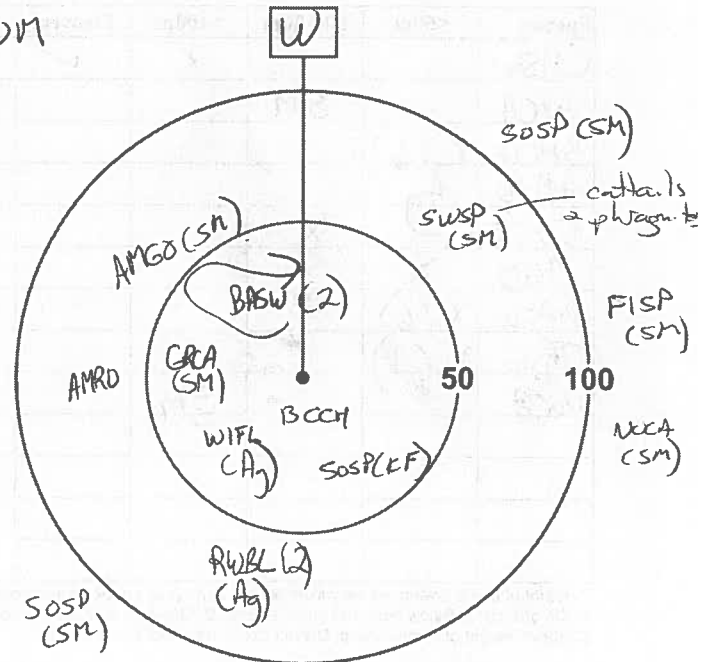
4785580

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
SOSP	CF		SM(2)		
SWSP		SM			
FISP			SM		
NOCA			SM		
BCCH	X				
WIFL	Ag				
GRCA	SM				
AMGO		SM			
AMRD	V				
RWBL		Ag(2)			

\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

CUM



Station: \_\_\_\_\_

Feature: \_\_\_\_\_

UTM: 605974

Start Time: \_\_\_\_\_

End Time: \_\_\_\_\_

4785591

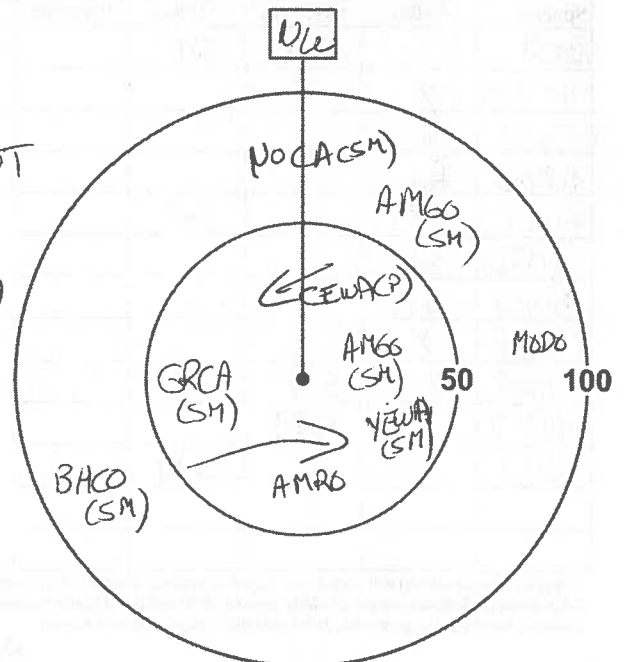
Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
NOCA		SM	SM		
AMGO	SM	SM			
CEWA	P				
MDDO		X			
VEWA	SM				
AMRD	X				
GRCA	SM				
BACO		SM			

\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

CUT

NOCA (SM)



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

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

(Field Personnel)

Quality Control: This form is complete  & legible .

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

(Project Manager)

REV: 2011-05-04 / FORM 020

Station: 10

Feature:

UTM: 606591

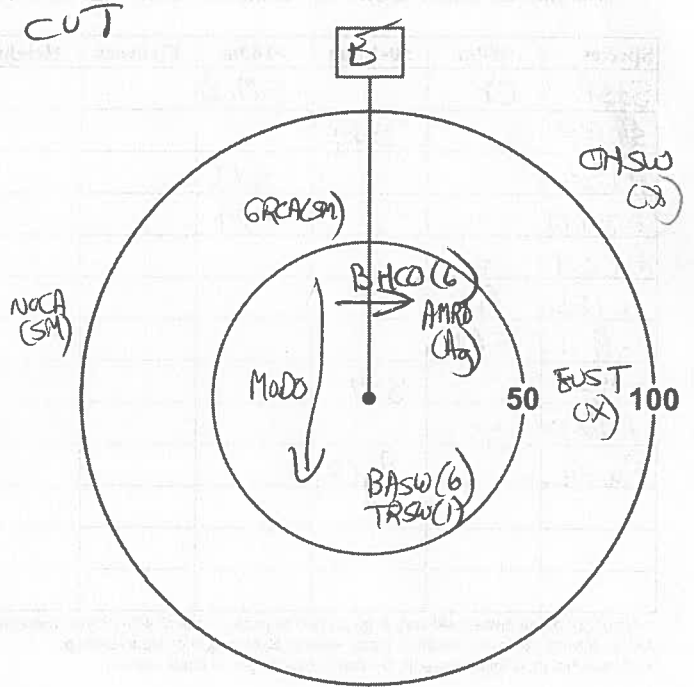
Start Time: 8<sup>34</sup>

End Time: 8<sup>39</sup>

4785428

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
CHSW			X	✓	
GRCA		SM			
BHCO	P (6)				
AMRO	Ag				
EUST		X			
MOBO	X				
BASW	X (6)				
TRSW	X (1)				
NOCA			SM		



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

Station: 11

Feature:

UTM: 606387

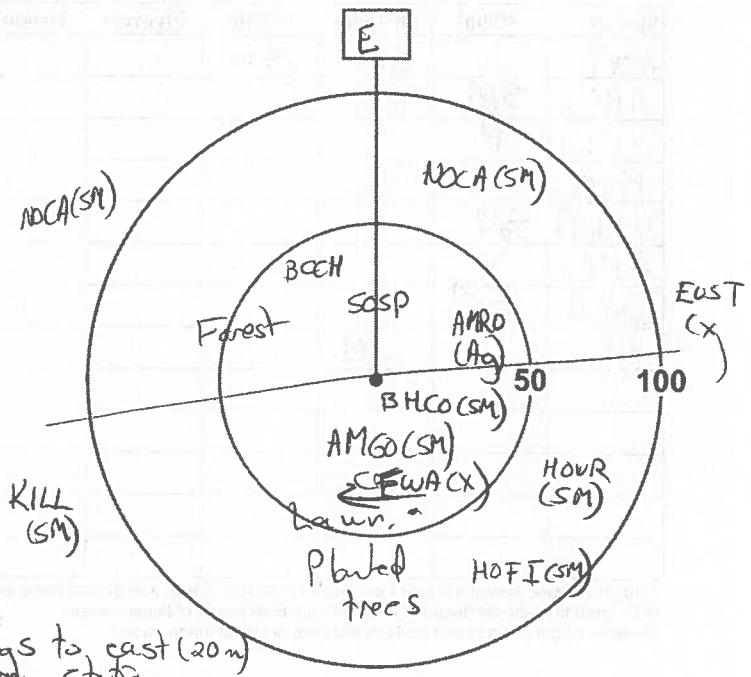
Start Time: 8<sup>5</sup>

End Time:

4785485

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
NOCA		SM	SM		
BCCH	X				
SOSP	X				
AMRO	Ag				
EUST			X		
AMGO	SM				
BHCO	SM				
CEWA	X				
HOWR		SM			
HOFI		SM			
KILL			SM		



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

green frogs to east (20m) of survey station

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

Quality Control: This form is complete  & legible .

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

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

(Field Personnel)

(Project Manager)



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

## Birding Point Counts Survey Observation Form

**Stantec**

Project Number: \_\_\_\_\_

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

Date: July 10, 2012

Field Personnel: \_\_\_\_\_

Weather Conditions:

TEMP (°C): \_\_\_\_\_

WIND: \_\_\_\_\_

CLOUD: \_\_\_\_\_

PPT: \_\_\_\_\_

PPT (in last 24 hrs): \_\_\_\_\_

GPS #: T \_\_\_\_\_

Station: 12

Feature: \_\_\_\_\_

UTM: 605692

Start Time: 8<sup>55</sup>

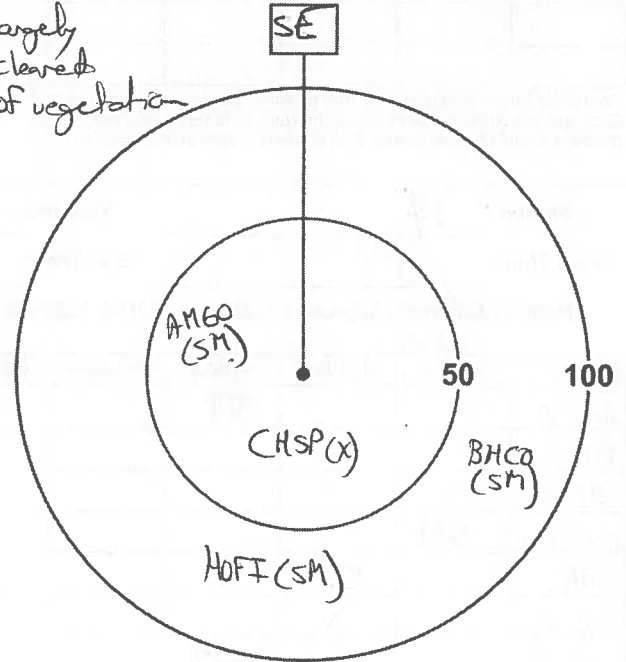
End Time: 9<sup>00</sup>

4786278

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
AMGO	SM				
CHSP	X				
BHCO		SM			
HOPI		SM			

*largely cleared of vegetation*



\* Height of blade sweep varies from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

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

Quality Control: This form is complete  & legible .

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

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

(Field Personnel)

(Project Manager)

Station: 13

Feature:

UTM: 606 896

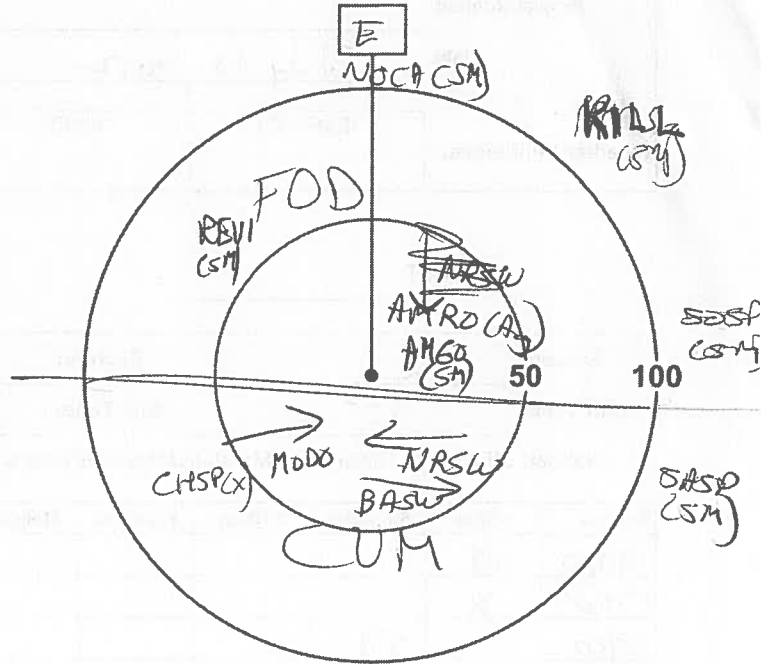
Start Time: 9 25

End Time: 9 30

4785741

Habitat:  Forest /  Swamp /  Marsh /  Hay /  Pasture /  Crop  
CUM

Species	<50m	50-100m	>100m	Flyovers	Height*
NOCA			SM		
KILL			SM		
REVI		SM			
AMRO	Ag				
AMGO	SP				
SOSP			SM		
CHSP		X			
NRSW	✓			✓	
BASW	✓			✓	
SASP			SM		
MOD0	✓			✓	



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

Station: 14

Feature:

UTM: 606 866

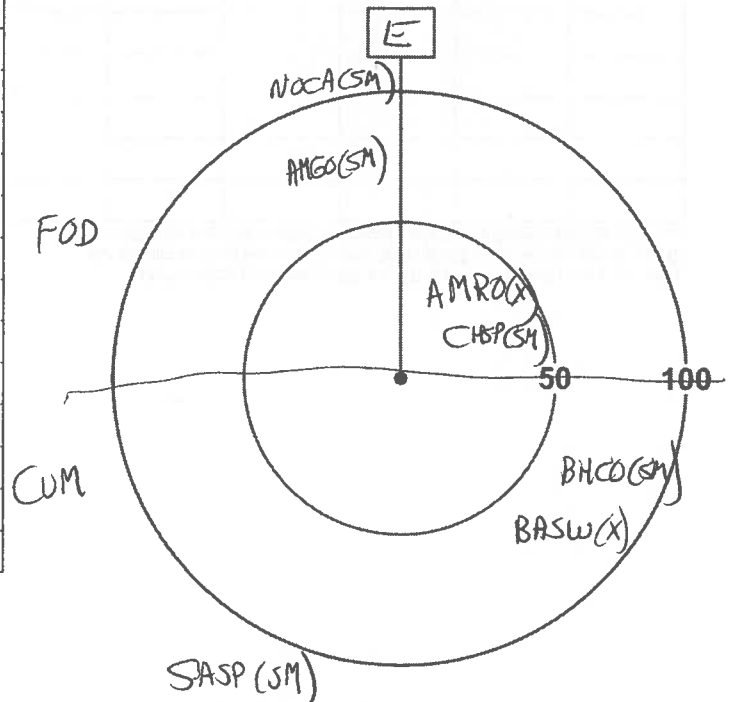
Start Time: 9 35

End Time: 9 40

4785638

Habitat:  Forest /  Swamp /  Marsh /  Hay /  Pasture /  Crop  
CUM

Species	<50m	50-100m	>100m	Flyovers	Height*
NOCA			SM		
AMGO		SM			
AMRO	X				
CHSP	SM				
BHCO		SM			
BASW		X			
SASP			SM		



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

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

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

(Field Personnel)

Quality Control: This form is complete  & legible .

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

(Project Manager)

Station:

15

Feature:

UTM:

606832

Start Time:

9<sup>45</sup>

End Time:

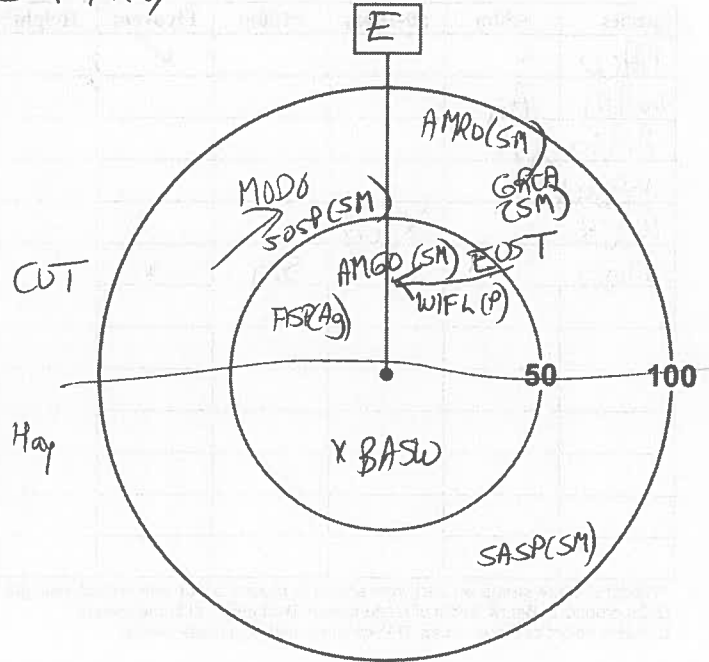
9<sup>50</sup>

4785515

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

CUT / Hay

Species	<50m	50-100m	>100m	Flyovers	Height*
AMRD		SM			
GRCA		SM			
MDDO		X			
SOSP		SM			
AMGO	SM				
EOST	X				
WFL	P				
FLSP	Ag				
SASP		SM			
BASW	X				



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

Station:

16

Feature:

UTM:

606992

Start Time:

10<sup>05</sup>

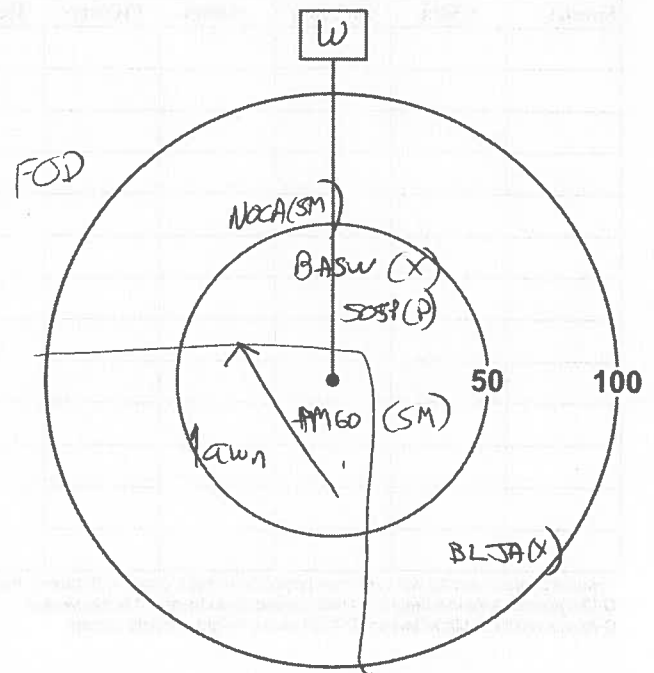
End Time:

10<sup>13</sup>

4785671

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
NOCA		SM			
BASW	X			✓	
SOSP	P				
AMGO	SM			✓	
BLJA		X			



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

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

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

(Field Personnel)

Quality Control: This form is complete  & legible .

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

(Project Manager)

Station: 17

Feature:

UTM: 607628

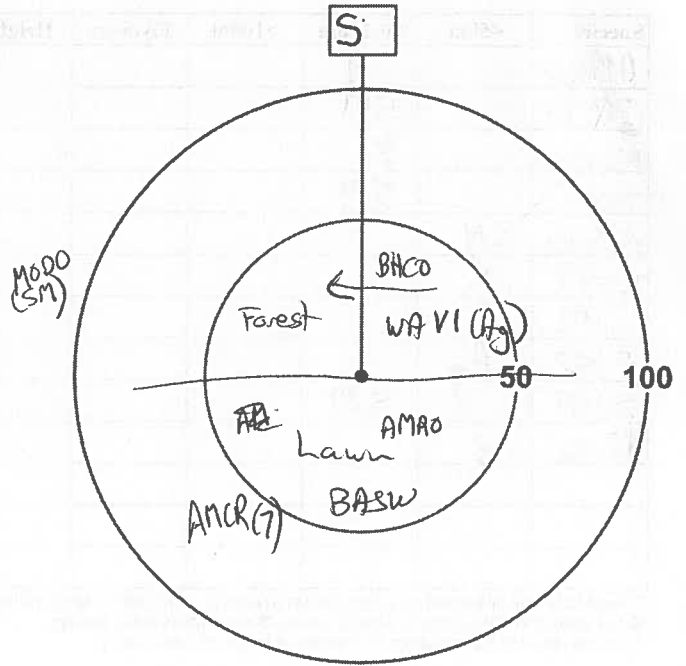
Start Time: 10<sup>15</sup>

End Time: 10<sup>20</sup>

4785448

Habitat:  Forest /  Swamp /  Marsh /  Hay /  Pasture /  Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
BHCO	✓			✓	
WAVI	Ag				
AMRO	X				
BASW	X				
AMCR		X (7)			
MOD0			Sm		



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

Station:

Feature:

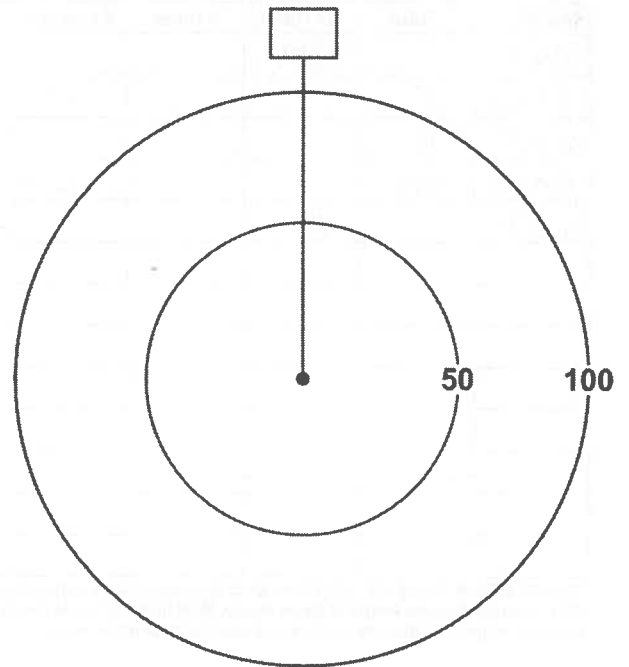
UTM:

Start Time:

End Time:

Habitat:  Forest /  Swamp /  Marsh /  Hay /  Pasture /  Crop

Species	<50m	50-100m	>100m	Flyovers	Height*



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

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

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

(Field Personnel)

Quality Control: This form is complete  & legible .

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

(Project Manager)

**Stantec**

**REPORT ON FOUR AVIAN SPECIES AT RISK AND OTHER BREEDING BIRD SPECIES  
WITHIN FRUITLAND-WINONA SECONDARY PLAN AREA, SCUBE CENTRAL, SCUBE  
EAST 'A' AND SCUBE EAST 'B' PARCELS**

APPENDIX C: Data Sheets

November 28, 2012

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## **Appendix C2: Scube Parcels**

CHSW

60950443  
JUNE 26 2012

Hamilton-SCUBE

Time	Station	UTM	location	# suitable chimneys	# CHSW obs.
09:30	1 Wmonarke Wmona Equip	0609819 4785639		none -all=narrow, dum or capped	∅
09:45	2 1216 Barton	0609305 4785335		none - new housing to north - no chimney to W - older houses - sm / capped	∅
10:00	3 1178 Barton	0609056 4785414		none	∅
10:15	4 School	0608835 4785328		houses across st none #265 → lrg wide chimney - not visible if access	∅
(no other stns on Lewis - no other pot. structures - all visible from #4 stn).					
10:30	5 1123 Hwy 8	608591 4784942		#1123 has long narrow brick chimney @ 3 stacks (not apparent if access)	∅
10:45	6 Memphis fire Bldg.	608322 4784897		none - capped / sm	∅
11:00	7 Thai cuisine 1065 Hwy 8	6008135 4784860		? older house - 1059 Hwy 8 narrow long brick - no caps top not visible	∅
11:15	8 201 Mcneilly Rd.	0607825 4784837			
11:30	9 235 Mcneilly Rd	0607909 4785077		none	∅
11:45	10 263 Mcneilly Rd	0607970 4785277		none	∅
12:00	11 297 Mcneilly (Mcneilly/Barton)	0608046 4785539		none	∅



CHSW

June 26 2012

Scube

<u>Time</u>	<u>Station</u>	<u>UTM</u>	# suitable <u>chimneys</u>	# CHSW <u>observed</u>
12 <sup>15</sup>	12 (1095 Boston)	608636 4785483	None	∅
12 <sup>30</sup>	13 (1226 Hwy 8)	609256 4784859	None	∅

CHSW

160950443

JULY 4, 2012

HAMILTON-SCUBE

TIME:	STATION:	UTM:	# OF SUITABLE CHIMNEYS	# CHSW OBSERVED:
10:35	①	0609819 4785639	∅	∅
10:52	②	0609305 4785335	∅ <u>      </u> <u>      </u>	∅
11:08	③	0609056 4785414	∅	∅
11:26	④	0608835 4785328	∅	∅
11:43	⑤	0608591 4784942	∅	∅ BARS (3)
11:58	⑥	0608322 4784897	∅	∅
12:15	⑦	0608135 4784860	∅	∅
12:30	⑧	0607825 4784837	∅	∅
12:45	⑨	0607909 4785077	∅	∅
13:00	⑩	0607970 4785277	∅	∅
13:15	⑪	0608046 4785539	∅	∅
13:30	⑫	0608636 4785483	∅	∅
13:47	⑬	0609256 4784859	∅	∅



# Chimney Assessment Form

Page 2

Chimney height above roofline (m): <u>2m</u>	Number of Flues: <u>1</u>	Colour of Chimney: <u>Brown</u>
Total Chimney Height (m) = <u>1</u> × 3 m + <u>2</u> = <u>5</u> m <small>Number of stories in building (approx height of one story) Height above roofline (m)</small>		
If swifts are present, are they: <input type="checkbox"/> Nesting <input type="checkbox"/> Roosting <input type="checkbox"/> Unknown		
Additional Comments: <p style="text-align: center;"><u>None</u></p>		

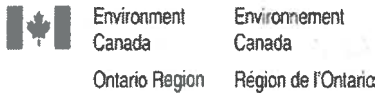
Created by:



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In partnership with:



# Chimney Assessment Form

## Observer Details

Name	Phone Number ( )	Email Address		
Street Address	City	Prov.	Postal Code	

## Building Details

Street Address <i>1220 Barton</i>	City	Prov.	Postal Code	
Owner Name	Phone Number ( )	Email Address		
Type of building (please check one):				
<input checked="" type="checkbox"/> House	<input type="checkbox"/> Church	<input type="checkbox"/> Store		
<input type="checkbox"/> Lowrise Apartment	<input type="checkbox"/> School	<input type="checkbox"/> Factory		
<input type="checkbox"/> Highrise Apartment	<input type="checkbox"/> Hospital	<input type="checkbox"/> Other, please specify: _____		

## Chimney Details

Site Name <i>2</i>	Chimney Code <i>SC-B-2</i>																
GPS coordinates (DD.dddd): Lat. <i>47° 85' 30.9" N</i> Long. <i>609° 37.9" W</i>	<p><b>NOTE:</b> Chimney codes are created using the following scheme:</p> <p style="text-align: center;">City Initials - Site Initials - Chimney Number</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;"></td> <td style="width: 25%; text-align: center;"><u>No. of</u></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> </tr> <tr> <td style="text-align: center;"><u>City Name</u></td> <td style="text-align: center;"><u>Site Name</u></td> <td style="text-align: center;"><u>Chimneys</u></td> <td style="text-align: center;"><u>Code</u></td> </tr> <tr> <td style="text-align: center;">Eg. Port Rowan</td> <td style="text-align: center;">Public Library</td> <td style="text-align: center;">1</td> <td style="text-align: center;">PR-PL-1</td> </tr> <tr> <td style="text-align: center;">London</td> <td style="text-align: center;">141 Wortley</td> <td style="text-align: center;">2</td> <td style="text-align: center;">LO-141-1 LO-141-2</td> </tr> </table>		<u>No. of</u>			<u>City Name</u>	<u>Site Name</u>	<u>Chimneys</u>	<u>Code</u>	Eg. Port Rowan	Public Library	1	PR-PL-1	London	141 Wortley	2	LO-141-1 LO-141-2
		<u>No. of</u>															
<u>City Name</u>	<u>Site Name</u>	<u>Chimneys</u>	<u>Code</u>														
Eg. Port Rowan	Public Library	1	PR-PL-1														
London	141 Wortley	2	LO-141-1 LO-141-2														
Number of years active (if known):	<p>If possible, please draw a picture of the chimney location on the building, including the position where the coordinates were taken.</p> <div style="text-align: center; margin-top: 20px;"> </div>																
Chimney material (please check one): <input checked="" type="checkbox"/> Brick <input type="checkbox"/> Stucco <input type="checkbox"/> Concrete <input type="checkbox"/> Stone <input type="checkbox"/> Other, please specify: _____																	
If the chimney is modified (cap, liner, etc.), please check the appropriate modification: <input type="checkbox"/> Cap <input checked="" type="checkbox"/> Terra Cotta Liner <input type="checkbox"/> Animal Guard <input type="checkbox"/> Spark Protector <input type="checkbox"/> Metal Liner <input type="checkbox"/> Other, please specify: _____																	
Surrounding habitat (please check one): <input checked="" type="checkbox"/> Residential <i>Rural</i> <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input type="checkbox"/> Natural <input type="checkbox"/> Other, please specify: _____	<p>Please select the <b>SHAPE</b> of your chimney and provide the appropriate estimated measurements:</p> <p><input checked="" type="checkbox"/> Round      → Diameter (cm): _____</p> <p><input type="checkbox"/> Square      → Width (cm): _____</p> <p><input type="checkbox"/> Rectangular      → Width (cm): <u>40</u>      Length (cm): <u>40</u></p>																
		<p><b>NOTE:</b> Measurements can sometimes be estimated by counting bricks. Standard bricks have the following measurements: 20cm x 9cm x 6cm (L x W x H)</p>															

# Chimney Assessment Form

Page 2

Chimney height above roofline (m):	<u>1</u>	Number of Flues:	<u>1</u>	Colour of Chimney:	<u>Beige</u>				
Total Chimney Height (m)	=	<u>1</u>	×	<u>3 m</u>	+	<u>1</u>	=	<u>4</u>	m
		Number of stories in building		(approx height of one story)		Height above roofline (m)			
If swifts are present, are they: <input type="checkbox"/> Nesting <input type="checkbox"/> Roosting <input type="checkbox"/> Unknown									
Additional Comments:  <p style="text-align: center;"><u>None</u></p>									

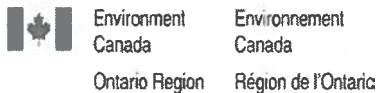
Created by:



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un partenaire canadien de



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# Chimney Assessment Form

Page 1

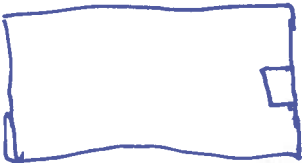
## Observer Details

Name	Phone Number ( )	Email Address		
Street Address	City	Prov.	Postal Code	

## Building Details

Street Address <b>1182 Barton</b>	City	Prov.	Postal Code	
Owner Name	Phone Number ( )	Email Address		
Type of building (please check one):				
<input checked="" type="checkbox"/> House	<input type="checkbox"/> Church	<input type="checkbox"/> Store		
<input type="checkbox"/> Lowrise Apartment	<input type="checkbox"/> School	<input type="checkbox"/> Factory		
<input type="checkbox"/> Highrise Apartment	<input type="checkbox"/> Hospital	<input type="checkbox"/> Other, please specify: _____		

## Chimney Details

Site Name <b>3</b>	Chimney Code <b>SC-B-3</b>															
GPS coordinates (DD.dddd): Lat. <b>4785399</b> ° N Long. <b>609098</b> ° W	<p><b>NOTE:</b> Chimney codes are created using the following scheme:</p> <p style="text-align: center;">City Initials - Site Initials - Chimney Number</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 20%; text-align: center;"><u>City Name</u></td> <td style="width: 20%; text-align: center;"><u>Site Name</u></td> <td style="width: 10%; text-align: center;"><u>No. of Chimneys</u></td> <td style="width: 35%; text-align: center;"><u>Code</u></td> </tr> <tr> <td>Eg.</td> <td>Port Rowan</td> <td>Public Library</td> <td style="text-align: center;">1</td> <td>PR-PL-1</td> </tr> <tr> <td></td> <td>London</td> <td>141 Wortley</td> <td style="text-align: center;">2</td> <td>LO-141-1 LO-141-2</td> </tr> </table>		<u>City Name</u>	<u>Site Name</u>	<u>No. of Chimneys</u>	<u>Code</u>	Eg.	Port Rowan	Public Library	1	PR-PL-1		London	141 Wortley	2	LO-141-1 LO-141-2
	<u>City Name</u>	<u>Site Name</u>	<u>No. of Chimneys</u>	<u>Code</u>												
Eg.	Port Rowan	Public Library	1	PR-PL-1												
	London	141 Wortley	2	LO-141-1 LO-141-2												
Number of years active (if known):	<p>If possible, please draw a picture of the chimney location on the building, including the position where the coordinates were taken.</p> <p style="text-align: center;"><u>Barton Rd.</u></p> 															
Chimney material (please check one):																
<input checked="" type="checkbox"/> Brick <input type="checkbox"/> Stucco <input type="checkbox"/> Concrete <input type="checkbox"/> Stone <input type="checkbox"/> Other, please specify: _____																
If the chimney is modified (cap, liner, etc.), please check the appropriate modification:																
<input type="checkbox"/> Cap <input checked="" type="checkbox"/> Terra Cotta Liner <input type="checkbox"/> Animal Guard <input type="checkbox"/> Spark Protector <input type="checkbox"/> Metal Liner <input type="checkbox"/> Other, please specify: _____																
Surrounding habitat (please check one):																
<input checked="" type="checkbox"/> Residential <b>Rural</b> <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input type="checkbox"/> Natural <input type="checkbox"/> Other, please specify: _____																
Please select the <b>SHAPE</b> of your chimney and provide the appropriate estimated measurements:																
<input type="checkbox"/> Round      → Diameter (cm): _____ <input checked="" type="checkbox"/> Square      → Width (cm): _____ <input type="checkbox"/> Rectangular      → Width (cm): <u>40</u> Length (cm): <u>40</u>	<p><b>NOTE:</b> Measurements can sometimes be estimated by counting bricks. Standard bricks have the following measurements: <b>20cm x 9cm x 6cm (L x W x H)</b></p>															

# Chimney Assessment Form

Page 2

Chimney height above roofline (m): <u>1</u>	Number of Flues: <u>1</u>	Colour of Chimney: <u>Brown</u>
Total Chimney Height (m) = <u>2</u> × 3 m + <u>1</u> = <u>7</u> m		
Number of stories in building (approx height of one story)      Height above roofline (m)		
If swifts are present, are they: <input type="checkbox"/> Nesting <input type="checkbox"/> Roosting <input type="checkbox"/> Unknown		
Additional Comments:  <p style="text-align: center;"><u>None</u></p>		

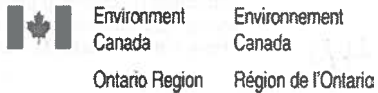
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# Chimney Assessment Form

Page 1

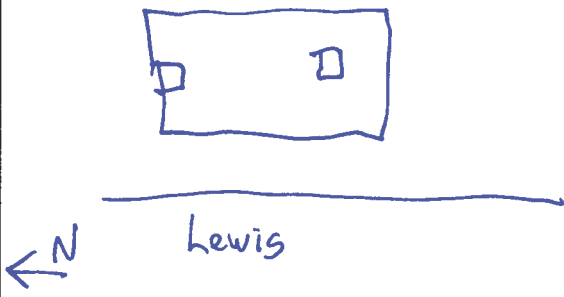
## Observer Details

Name	Phone Number ( )	Email Address		
Street Address	City	Prov.	Postal Code	

## Building Details

Street Address <i>292 Lewis</i>	City	Prov.	Postal Code
Owner Name	Phone Number ( )	Email Address	
Type of building (please check one): <input checked="" type="checkbox"/> House <input type="checkbox"/> Church <input type="checkbox"/> Store <input type="checkbox"/> Lowrise Apartment <input type="checkbox"/> School <input type="checkbox"/> Factory <input type="checkbox"/> Highrise Apartment <input type="checkbox"/> Hospital <input type="checkbox"/> Other, please specify: _____			

## Chimney Details

Site Name <i>4</i>	Chimney Code <i>SC-L-4</i>															
GPS coordinates (DD.dddd): Lat. <i>4785299</i> ° N Long. <i>608803</i> ° W	NOTE: Chimney codes are created using the following scheme: City Initials - Site Initials - Chimney Number <table style="margin-left: 20px;"> <tr> <td>Eg.</td> <td>City Name</td> <td>Site Name</td> <td>No. of Chimneys</td> <td>Code</td> </tr> <tr> <td></td> <td>Port Rowan</td> <td>Public Library</td> <td>1</td> <td>PR-PL-1</td> </tr> <tr> <td></td> <td>London</td> <td>141 Wortley</td> <td>2</td> <td>LO-141-1 LO-141-2</td> </tr> </table>	Eg.	City Name	Site Name	No. of Chimneys	Code		Port Rowan	Public Library	1	PR-PL-1		London	141 Wortley	2	LO-141-1 LO-141-2
Eg.	City Name	Site Name	No. of Chimneys	Code												
	Port Rowan	Public Library	1	PR-PL-1												
	London	141 Wortley	2	LO-141-1 LO-141-2												
Number of years active (if known):	If possible, please draw a picture of the chimney location on the building, including the position where the coordinates were taken.  <div style="text-align: center;">  </div>															
Chimney material (please check one): <input checked="" type="checkbox"/> Brick <input type="checkbox"/> Stucco <input type="checkbox"/> Concrete <input type="checkbox"/> Stone <input type="checkbox"/> Other, please specify: _____																
If the chimney is modified (cap, liner, etc.), please check the appropriate modification: <input checked="" type="checkbox"/> Cap <input checked="" type="checkbox"/> Terra Cotta Liner <input type="checkbox"/> Animal Guard <input type="checkbox"/> Spark Protector <input type="checkbox"/> Metal Liner <input type="checkbox"/> Other, please specify: _____																
Surrounding habitat (please check one): <input checked="" type="checkbox"/> Residential <i>/resid</i> <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input type="checkbox"/> Natural <input type="checkbox"/> Other, please specify: _____																
Please select the <b>SHAPE</b> of your chimney and provide the appropriate estimated measurements:																
<input type="checkbox"/> Round → Diameter (cm): _____ <input checked="" type="checkbox"/> Square → Width (cm): _____ <input type="checkbox"/> Rectangular → Width (cm): <i>50</i> Length (cm): <i>50</i>																
NOTE: Measurements can sometimes be estimated by counting bricks. Standard bricks have the following measurements: 20cm x 9cm x 6cm (L x W x H)																

# Chimney Assessment Form

Page 2

Chimney height above roofline (m): <u>3</u>	Number of Flues: <u>2</u>	Colour of Chimney: <u>Brown</u>
Total Chimney Height (m) = <u>1</u> × <u>3 m</u> + <u>3</u> = <u>6m</u> m <small>Number of stories in building (approx height of one story) Height above roofline (m)</small>		
If swifts are present, are they: <input type="checkbox"/> Nesting <input type="checkbox"/> Roosting <input type="checkbox"/> Unknown		
Additional Comments:  <p style="text-align: center;"><u>None.</u></p>		

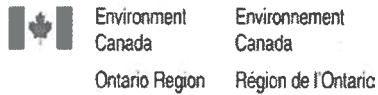
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# Chimney Assessment Form

Page 1

## Observer Details

Name	Phone Number ( )	Email Address		
Street Address	City	Prov.	Postal Code	

## Building Details

Street Address <span style="font-size: 1.2em; margin-left: 100px;">1143 Hwy 8</span>	City	Prov.	Postal Code	
Owner Name	Phone Number ( )	Email Address		
Type of building (please check one):				
<input type="checkbox"/> House	<input type="checkbox"/> Church	<input type="checkbox"/> Store		
<input type="checkbox"/> Lowrise Apartment	<input type="checkbox"/> School	<input type="checkbox"/> Factory		
<input type="checkbox"/> Highrise Apartment	<input type="checkbox"/> Hospital	<input checked="" type="checkbox"/> Other, please specify: <u>Hotel</u>		

## Chimney Details

Site Name <span style="font-size: 1.5em; margin-left: 20px;">5</span>	Chimney Code <span style="font-size: 1.2em; margin-left: 20px;">SC-8-5</span>												
GPS coordinates (DD.dddd): Lat. <u>4784962</u> ° N Long. <u>608720</u> ° W	NOTE: Chimney codes are created using the following scheme:  City Initials - Site Initials - Chimney Number  Eg. <table style="font-size: 0.8em; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;">City Name</th> <th style="text-align: left; border-bottom: 1px solid black;">Site Name</th> <th style="text-align: center; border-bottom: 1px solid black;">No. of Chimneys</th> <th style="text-align: left; border-bottom: 1px solid black;">Code</th> </tr> </thead> <tbody> <tr> <td>Port Rowan</td> <td>Public Library</td> <td style="text-align: center;">1</td> <td>PR-PL-1</td> </tr> <tr> <td>London</td> <td>141 Wortley</td> <td style="text-align: center;">2</td> <td>LO-141-1 LO-141-2</td> </tr> </tbody> </table>	City Name	Site Name	No. of Chimneys	Code	Port Rowan	Public Library	1	PR-PL-1	London	141 Wortley	2	LO-141-1 LO-141-2
City Name	Site Name	No. of Chimneys	Code										
Port Rowan	Public Library	1	PR-PL-1										
London	141 Wortley	2	LO-141-1 LO-141-2										
Number of years active (if known):	If possible, please draw a picture of the chimney location on the building, including the position where the coordinates were taken.          <div style="text-align: center; border: 1px solid black; width: 150px; height: 40px; margin: 0 auto; position: relative;"> <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); width: 10px; height: 10px; border: 1px solid black;"></div> </div> <p style="text-align: center; margin-top: 10px; font-size: 1.2em;">Hwy 8 x</p>												
Chimney material (please check one): <input checked="" type="checkbox"/> Brick <input type="checkbox"/> Stucco <input type="checkbox"/> Concrete <input type="checkbox"/> Stone <input type="checkbox"/> Other, please specify: _____													
If the chimney is modified (cap, liner, etc.), please check the appropriate modification: <input checked="" type="checkbox"/> Cap <input checked="" type="checkbox"/> Terra Cotta Liner <input type="checkbox"/> Animal Guard <input type="checkbox"/> Spark Protector <input type="checkbox"/> Metal Liner <input type="checkbox"/> Other, please specify: _____													
Surrounding habitat (please check one): <input checked="" type="checkbox"/> Residential <u>coral</u> <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input type="checkbox"/> Natural <input type="checkbox"/> Other, please specify: _____													
Please select the SHAPE of your chimney and provide the appropriate estimated measurements:													
<input type="checkbox"/> Round      → Diameter (cm): _____ <input checked="" type="checkbox"/> Square      → Width (cm): _____ <input type="checkbox"/> Rectangular      → Width (cm): <u>40</u> Length (cm): <u>40</u>													
NOTE: Measurements can sometimes be estimated by counting bricks. Standard bricks have the following measurements: 20cm x 9cm x 6cm (L x W x H)													

# Chimney Assessment Form

Page 2

Chimney height above roofline (m): <u>2</u>	Number of Flues: <u>1</u>	Colour of Chimney: <u>Brown</u>
Total Chimney Height (m) = <u>2</u> × 3 m + <u>2</u> = <u>8</u> m		
Number of stories in building (approx height of one story)      Height above roofline (m)		
If swifts are present, are they: <input type="checkbox"/> Nesting <input type="checkbox"/> Roosting <input type="checkbox"/> Unknown		
Additional Comments: <p style="text-align: center;"><u>None</u></p>		

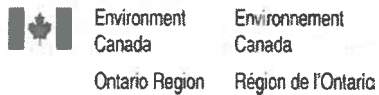
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# Chimney Assessment Form

Page 1

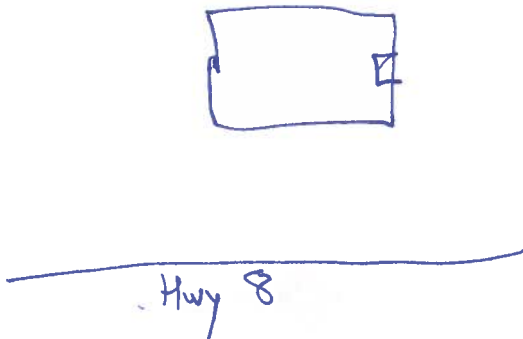
## Observer Details

Name	Phone Number ( )	Email Address		
Street Address	City	Prov.	Postal Code	

## Building Details

Street Address <i>1101 Hwy 8</i>	City	Prov.	Postal Code	
Owner Name	Phone Number ( )	Email Address		
Type of building (please check one):				
<input checked="" type="checkbox"/> House	<input type="checkbox"/> Church	<input type="checkbox"/> Store		
<input type="checkbox"/> Lowrise Apartment	<input type="checkbox"/> School	<input type="checkbox"/> Factory		
<input type="checkbox"/> Highrise Apartment	<input type="checkbox"/> Hospital	<input type="checkbox"/> Other, please specify: _____		

## Chimney Details

Site Name <i>6</i>	Chimney Code <i>SC-8-6</i>															
GPS coordinates (DD.dddd): Lat. <i>4784905</i> ° N Long. <i>608404</i> ° W	<p><b>NOTE:</b> Chimney codes are created using the following scheme:</p> <p style="text-align: center;">City Initials - Site Initials - Chimney Number</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 20%; text-align: center;"><u>City Name</u></td> <td style="width: 20%; text-align: center;"><u>Site Name</u></td> <td style="width: 10%; text-align: center;"><u>No. of Chimneys</u></td> <td style="width: 35%; text-align: center;"><u>Code</u></td> </tr> <tr> <td>Eg.</td> <td>Port Rowan</td> <td>Public Library</td> <td style="text-align: center;">1</td> <td>PR-PL-1</td> </tr> <tr> <td></td> <td>London</td> <td>141 Wortley</td> <td style="text-align: center;">2</td> <td>LO-141-1 LO-141-2</td> </tr> </table>		<u>City Name</u>	<u>Site Name</u>	<u>No. of Chimneys</u>	<u>Code</u>	Eg.	Port Rowan	Public Library	1	PR-PL-1		London	141 Wortley	2	LO-141-1 LO-141-2
		<u>City Name</u>	<u>Site Name</u>	<u>No. of Chimneys</u>	<u>Code</u>											
Eg.	Port Rowan	Public Library	1	PR-PL-1												
	London	141 Wortley	2	LO-141-1 LO-141-2												
Number of years active (if known):	<p>If possible, please draw a picture of the chimney location on the building, including the position where the coordinates were taken.</p> <div style="text-align: center; margin-top: 20px;">  </div>															
Chimney material (please check one):																
<input checked="" type="checkbox"/> Brick <input type="checkbox"/> Stucco <input type="checkbox"/> Concrete <input type="checkbox"/> Stone <input type="checkbox"/> Other, please specify: _____																
If the chimney is modified (cap, liner, etc.), please check the appropriate modification:																
<input checked="" type="checkbox"/> Cap <input checked="" type="checkbox"/> Terra Cotta Liner <input type="checkbox"/> Animal Guard <input type="checkbox"/> Spark Protector <input type="checkbox"/> Metal Liner <input type="checkbox"/> Other, please specify: _____																
Surrounding habitat (please check one):																
<input checked="" type="checkbox"/> Residential <i>rural</i> <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input type="checkbox"/> Natural <input type="checkbox"/> Other, please specify: _____																
Please select the <b>SHAPE</b> of your chimney and provide the appropriate estimated measurements:																
<input type="checkbox"/> Round → Diameter (cm): _____ <input type="checkbox"/> Square → Width (cm): _____ <input checked="" type="checkbox"/> Rectangular → Width (cm): <i>40</i> Length (cm): <i>60</i>																
<p><b>NOTE:</b> Measurements can sometimes be estimated by counting bricks. Standard bricks have the following measurements: <b>20cm x 9cm x 6cm (L x W x H)</b></p>																

# Chimney Assessment Form

Page 2

Chimney height above roofline (m): <u>0.5</u>	Number of Flues: <u>1</u>	Colour of Chimney: <u>Brown</u>
Total Chimney Height (m) = <u>2</u> × 3 m + <u>0.5</u> = <u>6.5</u> m <small>Number of stories in building (approx height of one story) Height above roofline (m)</small>		
If swifts are present, are they: <input type="checkbox"/> Nesting <input type="checkbox"/> Roosting <input type="checkbox"/> Unknown		
Additional Comments:  <p style="text-align: center;"><u>None</u></p>		

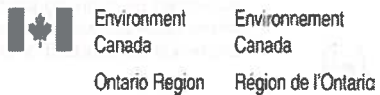
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# Chimney Assessment Form

Page 1

## Observer Details

Name	Phone Number ( )	Email Address		
Street Address	City	Prov.	Postal Code	

## Building Details

Street Address <del>1773</del> 1059 Hwy 8	City	Prov.	Postal Code	
Owner Name	Phone Number ( )	Email Address		
Type of building (please check one):				
<input checked="" type="checkbox"/> House	<input type="checkbox"/> Church	<input type="checkbox"/> Store		
<input type="checkbox"/> Lowrise Apartment	<input type="checkbox"/> School	<input type="checkbox"/> Factory		
<input type="checkbox"/> Highrise Apartment	<input type="checkbox"/> Hospital	<input type="checkbox"/> Other, please specify: _____		

## Chimney Details

Site Name § 7	Chimney Code SC-8-7															
GPS coordinates (DD.dddd): Lat. <u>47° 48' 59"</u> ° N Long. <u>60° 8' 45"</u> ° W	<p><b>NOTE:</b> Chimney codes are created using the following scheme:</p> <p style="text-align: center;">City Initials - Site Initials - Chimney Number</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 20%; text-align: center;"><u>City Name</u></td> <td style="width: 20%; text-align: center;"><u>Site Name</u></td> <td style="width: 10%; text-align: center;"><u>No. of Chimneys</u></td> <td style="width: 25%; text-align: center;"><u>Code</u></td> </tr> <tr> <td>Eg.</td> <td>Port Rowan</td> <td>Public Library</td> <td style="text-align: center;">1</td> <td>PR-PL-1</td> </tr> <tr> <td></td> <td>London</td> <td>141 Wortley</td> <td style="text-align: center;">2</td> <td>LO-141-1 LO-141-2</td> </tr> </table>		<u>City Name</u>	<u>Site Name</u>	<u>No. of Chimneys</u>	<u>Code</u>	Eg.	Port Rowan	Public Library	1	PR-PL-1		London	141 Wortley	2	LO-141-1 LO-141-2
		<u>City Name</u>	<u>Site Name</u>	<u>No. of Chimneys</u>	<u>Code</u>											
Eg.	Port Rowan	Public Library	1	PR-PL-1												
	London	141 Wortley	2	LO-141-1 LO-141-2												
Number of years active (if known):	<p>If possible, please draw a picture of the chimney location on the building, including the position where the coordinates were taken.</p> <div style="text-align: center; margin-top: 20px;"> </div>															
Chimney material (please check one):																
<input checked="" type="checkbox"/> Brick <input type="checkbox"/> Stucco <input type="checkbox"/> Concrete <input type="checkbox"/> Stone <input type="checkbox"/> Other, please specify: _____																
<p>If the chimney is modified (cap, liner, etc.), please check the appropriate modification:</p> <input type="checkbox"/> Cap <input type="checkbox"/> Terra Cotta Liner <input type="checkbox"/> Animal Guard <input type="checkbox"/> Spark Protector <input type="checkbox"/> Metal Liner <input type="checkbox"/> Other, please specify: _____ <p style="text-align: center; margin-left: 100px;"><u>No modifications</u></p>																
Surrounding habitat (please check one):																
<input checked="" type="checkbox"/> Residential <i>rural</i> <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input type="checkbox"/> Natural <input type="checkbox"/> Other, please specify: _____																
<p>Please select the <b>SHAPE</b> of your chimney and provide the appropriate estimated measurements:</p> <input type="checkbox"/> Round      → Diameter (cm): _____ <input type="checkbox"/> Square      → Width (cm): _____ <input checked="" type="checkbox"/> Rectangular      → Width (cm): <u>50</u> Length (cm): <u>100</u>																
<p><b>NOTE:</b> Measurements can sometimes be estimated by counting bricks. Standard bricks have the following measurements: 20cm x 9cm x 6cm (L x W x H)</p>																

# Chimney Assessment Form

Page 2

Chimney height above roofline (m): <u>3</u>	Number of Flues: <u>2</u>	Colour of Chimney: <u>Brown</u>
Total Chimney Height (m) = <u>3</u> × 3 m + <u>2</u> = <u>11</u> m <small>Number of stories in building (approx height of one story) Height above roofline (m)</small>		
If swifts are present, are they: <input type="checkbox"/> Nesting <input type="checkbox"/> Roosting <input type="checkbox"/> Unknown		
Additional Comments: <p style="text-align: center;"><i>None observed. 1<sup>st</sup> chimney in Scube parcels that looks suitable for chimney swift.</i></p>		

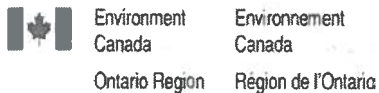
Created by:



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un partenaire canadien de



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# Chimney Assessment Form

## Observer Details

Name	Phone Number ( )	Email Address		
Street Address	City	Prov.	Postal Code	

## Building Details

Street Address <u>220 Mc Neilly</u>	City	Prov.	Postal Code	
Owner Name	Phone Number ( )	Email Address		
Type of building (please check one):				
<input checked="" type="checkbox"/> House	<input type="checkbox"/> Church	<input type="checkbox"/> Store		
<input type="checkbox"/> Lowrise Apartment	<input type="checkbox"/> School	<input type="checkbox"/> Factory		
<input type="checkbox"/> Highrise Apartment	<input type="checkbox"/> Hospital	<input type="checkbox"/> Other, please specify: _____		

## Chimney Details

Site Name <u>8</u>	Chimney Code <u>SC-M-8</u>																
GPS coordinates (DD.dddd): Lat. <u>4784984</u> ° N Long. <u>607878</u> ° W	<p><b>NOTE:</b> Chimney codes are created using the following scheme:</p> <p style="text-align: center;">City Initials - Site Initials - Chimney Number</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 25%; text-align: center;"><u>No. of</u></td> <td style="width: 25%;"></td> <td style="width: 35%;"></td> </tr> <tr> <td style="text-align: left;"><b>Eg.</b></td> <td style="text-align: center;"><u>City Name</u></td> <td style="text-align: center;"><u>Site Name</u></td> <td style="text-align: center;"><u>Code</u></td> </tr> <tr> <td></td> <td style="text-align: center;">Port Rowan</td> <td style="text-align: center;">Public Library</td> <td style="text-align: center;">1 PR-PL-1</td> </tr> <tr> <td></td> <td style="text-align: center;">London</td> <td style="text-align: center;">141 Wortley</td> <td style="text-align: center;">2 LO-141-1 LO-141-2</td> </tr> </table>		<u>No. of</u>			<b>Eg.</b>	<u>City Name</u>	<u>Site Name</u>	<u>Code</u>		Port Rowan	Public Library	1 PR-PL-1		London	141 Wortley	2 LO-141-1 LO-141-2
		<u>No. of</u>															
<b>Eg.</b>	<u>City Name</u>	<u>Site Name</u>	<u>Code</u>														
	Port Rowan	Public Library	1 PR-PL-1														
	London	141 Wortley	2 LO-141-1 LO-141-2														
Number of years active (if known):	<p>If possible, please draw a picture of the chimney location on the building, including the position where the coordinates were taken.</p> <div style="text-align: center; margin-top: 20px;"> </div>																
Chimney material (please check one):																	
<input type="checkbox"/> Brick <input checked="" type="checkbox"/> Stucco <input type="checkbox"/> Concrete <input type="checkbox"/> Stone <input type="checkbox"/> Other, please specify: _____																	
If the chimney is modified (cap, liner, etc.), please check the appropriate modification:																	
<input type="checkbox"/> Cap <input checked="" type="checkbox"/> Terra Cotta Liner <input type="checkbox"/> Animal Guard <input type="checkbox"/> Spark Protector <input type="checkbox"/> Metal Liner <input type="checkbox"/> Other, please specify: _____																	
Surrounding habitat (please check one):																	
<input checked="" type="checkbox"/> Residential <u>rural</u> <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input type="checkbox"/> Natural <input type="checkbox"/> Other, please specify: _____																	
Please select the <b>SHAPE</b> of your chimney and provide the appropriate estimated measurements:																	
<input type="checkbox"/> Round                      → Diameter (cm): _____ <input type="checkbox"/> Square                      → Width (cm): _____ <input checked="" type="checkbox"/> Rectangular                → Width (cm): <u>150</u> Length (cm): <u>30</u>																	
<p><b>NOTE:</b> Measurements can sometimes be estimated by counting bricks. Standard bricks have the following measurements: 20cm x 9cm x 6cm (L x W x H)</p>																	

# Chimney Assessment Form

Page 2

Chimney height above roofline (m):	<u>1</u>	Number of Flues:	<u>4</u>	Colour of Chimney:	<u>Beige</u>				
Total Chimney Height (m)	=	<u>1</u>	×	3 m	+	<u>1</u>	=	<u>4</u>	m
		Number of stories in building		(approx height of one story)		Height above roofline (m)			
<b>If swifts are present, are they:</b> <input type="checkbox"/> Nesting <input type="checkbox"/> Roosting <input type="checkbox"/> Unknown									
<b>Additional Comments:</b>  <div style="text-align: center; font-size: 1.2em; color: blue;">None</div>									

Created by:



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un partenaire canadien de



In partnership with:



Environment Canada  
Environnement Canada  
Ontario Region    Région de l'Ontario



**McIlwraith  
Field  
Naturalists**

# Chimney Assessment Form

Page 1

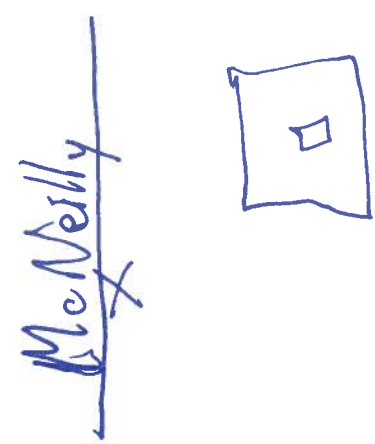
## Observer Details

Name	Phone Number ( )	Email Address		
Street Address		City	Prov.	Postal Code

## Building Details

Street Address <u>252 Mc Neilly</u>		City	Prov.	Postal Code
Owner Name		Phone Number ( )	Email Address	
Type of building (please check one):				
<input checked="" type="checkbox"/> House	<input type="checkbox"/> Church	<input type="checkbox"/> Store		
<input type="checkbox"/> Lowrise Apartment	<input type="checkbox"/> School	<input type="checkbox"/> Factory		
<input type="checkbox"/> Highrise Apartment	<input type="checkbox"/> Hospital	<input type="checkbox"/> Other, please specify: _____		

## Chimney Details

Site Name <u>9</u>	Chimney Code <u>SC-M-9</u>												
GPS coordinates (DD.dddd): Lat. <u>47.85167</u> ° N Long. <u>6.07939</u> ° W	NOTE: Chimney codes are created using the following scheme:  City Initials - Site Initials - Chimney Number  Eg. <table border="1"> <thead> <tr> <th>City Name</th> <th>Site Name</th> <th>No. of Chimneys</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>Port Rowan</td> <td>Public Library</td> <td>1</td> <td>PR-PL-1</td> </tr> <tr> <td>London</td> <td>141 Wortley</td> <td>2</td> <td>LO-141-1 LO-141-2</td> </tr> </tbody> </table>	City Name	Site Name	No. of Chimneys	Code	Port Rowan	Public Library	1	PR-PL-1	London	141 Wortley	2	LO-141-1 LO-141-2
City Name	Site Name	No. of Chimneys	Code										
Port Rowan	Public Library	1	PR-PL-1										
London	141 Wortley	2	LO-141-1 LO-141-2										
Number of years active (if known):	If possible, please draw a picture of the chimney location on the building, including the position where the coordinates were taken.  												
Chimney material (please check one): <input checked="" type="checkbox"/> Brick <input type="checkbox"/> Stucco <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Stone <input type="checkbox"/> Other, please specify: _____													
If the chimney is modified (cap, liner, etc.), please check the appropriate modification: <input type="checkbox"/> Cap <input checked="" type="checkbox"/> Terra Cotta Liner <input checked="" type="checkbox"/> Animal Guard <input type="checkbox"/> Spark Protector <input type="checkbox"/> Metal Liner <input type="checkbox"/> Other, please specify: _____													
Surrounding habitat (please check one): <input checked="" type="checkbox"/> Residential <u>residential</u> <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input type="checkbox"/> Natural <input type="checkbox"/> Other, please specify: _____													
Please select the <b>SHAPE</b> of your chimney and provide the appropriate estimated measurements:													
<input type="checkbox"/> Round → Diameter (cm): _____	NOTE: Measurements can sometimes be estimated by counting bricks. Standard bricks have the following measurements: 20cm x 9cm x 6cm (L x W x H)												
<input checked="" type="checkbox"/> Square → Width (cm): _____													
<input type="checkbox"/> Rectangular → Width (cm): <u>40</u> Length (cm): <u>40</u>													

# Chimney Assessment Form

Page 2

Chimney height above roofline (m): <u>2</u>	Number of Flues: <u>1</u>	Colour of Chimney: <u>Grey</u>
Total Chimney Height (m) = <u>1</u> × 3 m + <u>2</u> = <u>5</u> m <small>Number of stories in building (approx height of one story) Height above roofline (m)</small>		
If swifts are present, are they: <input type="checkbox"/> Nesting <input type="checkbox"/> Roosting <input type="checkbox"/> Unknown		
Additional Comments:  <p style="text-align: center;"><u>None</u></p>		

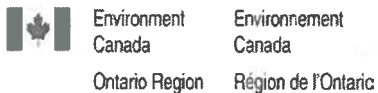
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# Chimney Assessment Form

Page 1

## Observer Details

Name	Phone Number ( )	Email Address		
Street Address	City	Prov.	Postal Code	

## Building Details

Street Address <i>276 Mc Neilly</i>	City	Prov.	Postal Code	
Owner Name	Phone Number ( )	Email Address		
Type of building (please check one):				
<input type="checkbox"/> House	<input type="checkbox"/> Church	<input type="checkbox"/> Store		
<input type="checkbox"/> Lowrise Apartment	<input type="checkbox"/> School	<input type="checkbox"/> Factory		
<input type="checkbox"/> Highrise Apartment	<input type="checkbox"/> Hospital	<input type="checkbox"/> Other, please specify: _____		

## Chimney Details

Site Name <i>10</i>	Chimney Code <i>SC-M-10</i>										
GPS coordinates (DD.dddd): Lat. <i>4785345</i> ° N Long. <i>607989</i> ° W	<p><b>NOTE:</b> Chimney codes are created using the following scheme:</p> <p style="text-align: center;">City Initials - Site Initials - Chimney Number</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;"></td> <td style="width: 20%; text-align: center;"><u>City Name</u></td> <td style="width: 20%; text-align: center;"><u>Site Name</u></td> <td style="width: 10%; text-align: center;"><u>No. of Chimneys</u></td> <td style="width: 20%; text-align: center;"><u>Code</u></td> </tr> <tr> <td>Eg.</td> <td>Port Rowan London</td> <td>Public Library 141 Wortley</td> <td style="text-align: center;">1 2</td> <td style="text-align: center;">PR-PL-1 LO-141-1 LO-141-2</td> </tr> </table>		<u>City Name</u>	<u>Site Name</u>	<u>No. of Chimneys</u>	<u>Code</u>	Eg.	Port Rowan London	Public Library 141 Wortley	1 2	PR-PL-1 LO-141-1 LO-141-2
	<u>City Name</u>	<u>Site Name</u>	<u>No. of Chimneys</u>	<u>Code</u>							
Eg.	Port Rowan London	Public Library 141 Wortley	1 2	PR-PL-1 LO-141-1 LO-141-2							
Number of years active (if known):	<p>If possible, please draw a picture of the chimney location on the building, including the position where the coordinates were taken.</p> <div style="text-align: center; margin-top: 20px;"> </div>										
Chimney material (please check one):											
<input checked="" type="checkbox"/> Brick <input type="checkbox"/> Stucco <input type="checkbox"/> Concrete <input type="checkbox"/> Stone <input type="checkbox"/> Other, please specify: _____											
If the chimney is modified (cap, liner, etc.), please check the appropriate modification:											
<input type="checkbox"/> Cap <input checked="" type="checkbox"/> Terra Cotta Liner <input checked="" type="checkbox"/> Animal Guard <input type="checkbox"/> Spark Protector <input type="checkbox"/> Metal Liner <input type="checkbox"/> Other, please specify: _____											
Surrounding habitat (please check one):											
<input checked="" type="checkbox"/> Residential <i>rural</i> <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input type="checkbox"/> Natural <input type="checkbox"/> Other, please specify: _____											
Please select the <b>SHAPE</b> of your chimney and provide the appropriate estimated measurements:											
<input type="checkbox"/> Round → Diameter (cm): _____ <input checked="" type="checkbox"/> Square → Width (cm): _____ <input type="checkbox"/> Rectangular → Width (cm): <i>40</i> Length (cm): <i>40</i>											
<p><b>NOTE:</b> Measurements can sometimes be estimated by counting bricks. Standard bricks have the following measurements: <b>20cm x 9cm x 6cm (L x W x H)</b></p>											

# Chimney Assessment Form

Page 2

Chimney height above roofline (m): <u>0.5</u>	Number of Flues: <u>1</u>	Colour of Chimney: <u>Brown</u>
Total Chimney Height (m) = <u>1</u> × 3 m + <u>0.5</u> = <u>3.5</u> m <small>Number of stories in building (approx height of one story) Height above roofline (m)</small>		
If swifts are present, are they: <input type="checkbox"/> Nesting <input type="checkbox"/> Roosting <input type="checkbox"/> Unknown		
Additional Comments: <p style="text-align: center;"><u>None</u></p>		

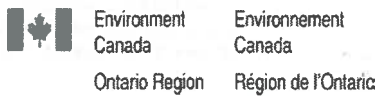
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In partnership with:





Stantec

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

# Barn Swallow Observation Form

Project Number: 60950443      Project Name: Scube  
 Date: June 26, 2012      Field Personnel: N. Kopych

<b>Weather Conditions:</b>	Temp: <u>15 to 20°C</u>	Wind: <u>0-1</u>	Cloud: <u>20%</u>	PPT: <u>0</u>	PPT in last 24 hrs: <u>0</u>
----------------------------	-------------------------	------------------	-------------------	---------------	------------------------------

Survey Station	Time	GPS Coordinates	# BARS observed	Type of structure (e.g. barn, culvert)	Accessible nesting sites (Y or N)	Nests	
						Active	Inactive
15	6 <sup>30</sup> -6 <sup>35</sup>	610049, 4785387	1	N.A.	Foraging only		
8	7 <sup>04</sup> -7 <sup>09</sup>	610651, 4785997	2	N.A.	Foraging only		
17	7 <sup>49</sup> -7 <sup>54</sup>	608784, 4785104	1	N.A.	Foraging only		
5	8 <sup>35</sup> -8 <sup>40</sup>	608294, 4785534	1	N.A.	Foraging only		
6	8 <sup>45</sup> -8 <sup>50</sup>	608587, 4785464	3	N.A.	Foraging only		
18	9 <sup>00</sup> -9 <sup>05</sup>	610787, 4785550	1	N.A.	Foraging only		

Quality Control: This form is complete ( ) & legible ( ).

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

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



**Stantec**

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

# Barn Swallow Observation Form

Project Number 160950443

Project Name: Scube

Date: July 4, 2012

Field Personnel: Michael Oliveira

<b>Weather Conditions:</b>	Temp: <u>20°C</u>	Wind: <u>1-2</u>	Cloud: <u>50%</u>	PPT: <u>Ø</u>	PPT in last 24 hrs: <u>Ø</u>
----------------------------	-------------------	------------------	-------------------	---------------	------------------------------

Survey Station	Time	GPS Coordinates	# BARS observed	Type of structure (e.g. barn, culvert)	Accessible nesting sites (Y or N)	Nests	
						Active	Inactive
608	6 <sup>51</sup> -6 <sup>56</sup>	608587, 4785464	1	N.A.	Foraging	only	
	7 <sup>16</sup> -7 <sup>21</sup>	610089, 478967	2	N.A.	Foraging	only	

Quality Control: This form is complete ( ) & legible ( ).

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

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





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

# Barn Swallow Observation Form

Project Number 160950443

Project Name: Scube

Date: July 12, 2012

Field Personnel: D. Graham

Weather Conditions:

Temp:

16-25°C

Wind:

0-1

Cloud:

10%

PPT:

None

PPT in last 24 hrs:

None

Survey Station	Time AM	GPS Coordinates	# BARS observed	Type of structure (e.g. barn, culvert)	Accessible nesting sites (Y or N)	Nests	
						Active	Inactive
<u>2</u>	<u>5:45</u>	<u>608483</u> <u>4784921</u>	<u>2</u>				
<u>4</u>	<u>6:15</u>	<u>608758</u> <u>4785292</u>	<u>3</u>				
<u>6</u>	<u>6:45</u>		<u>1</u>				
<u>8</u>	<u>7:05</u>	<u>610065</u> <u>4785097</u>	<u>1</u>				
<u>11</u>	<u>7:45</u>	<u>610234</u> <u>4785771</u>	<u>1</u>				
<u>14</u>	<u>8:15</u>	<u>609860</u> <u>4785605</u>	<u>1</u>				
<u>15</u>	<u>9:05</u>	<u>610787</u> <u>4785550</u>	<u>3</u>				
<u>16</u>	<u>8:35</u>	<u>608784</u> <u>4785104</u>	<u>1</u>				
<u>17</u>	<u>8:50</u>	<u>611228</u> <u>4785587</u>	<u>4</u>				
<u>Box culvert - on south Service Rd</u>	<u>12:00</u>	<u>611246</u> <u>4785577</u>	<u>0</u>	<u>Box culvert</u>	<u>N</u>		
<u>Box culvert - Hwy 8</u>	<u>12:30</u>	<u>608659</u> <u>4784950</u>	<u>0</u>	<u>Box culvert</u>	<u>N</u>		

Foraging  
Foraging  
Foraging  
Foraging  
Foraging  
Foraging  
Foraging  
Foraging

Box culvert - on south Service Rd  
Box culvert - Hwy 8

Quality Control: This form is complete ( ) & legible ( ).

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

Signature: 1 \_\_\_\_\_  
(Project Manager)



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## Bobolink and Eastern Meadowlark Breeding Survey Form

**Stantec**

Project Number: 60950443

Project Name: Hamilton - Winona /

Date: JUNE 26 2012

Field Personnel: N. KOPYSH SWBE

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>18°C.</u>	<u>0-1</u>	<u>20%</u>	<u>Ø</u>	<u>Ø</u>

Please mark transect location on map and indicate areas of species observations on map.

Pt. Location  
 Transect No.: 3

Habitat: open field

Start Time: 07:55

End Time: 08:05

Start Point UTM: \_\_\_\_\_

End Point UTM: \_\_\_\_\_

Species	Tally
Bobolink	<u>Ø</u>
Eastern Meadowlark	<u>1</u>
<u>*access by roadside only</u>	

Pt. location  
 Transect No.: 7

Habitat: open field (can't see well)

Start Time: 7:16

End Time: 7:21

Start Point UTM: 6092461, 4785339

End Point UTM: \_\_\_\_\_

Species	Tally
Bobolink	<u>Ø</u>
Eastern Meadowlark	<u>1</u>

- all other habitat in study area = marginal = cum (for b dominated) or shrub/succ,  
 - field at str 7 not well visible from road - potential?

Pg. \_\_\_ of \_\_\_

Quality Control: This form is complete  & legible .

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

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

Pt. location

Transect No.:

4

Habitat:

Field

Start Time:

727

End Time:

732

Start Point UTM:

608758, 4785297

End Point UTM:

Species	Tally
Bobolink	0
Eastern Meadowlark	1

Pt. location

Transect No.:

3

Habitat:

Open field

Start Time:

742

End Time:

747

Start Point UTM:

608816, 4785156

End Point UTM:

Species	Tally
Bobolink	0
Eastern Meadowlark	1

Transect No.:

Habitat:

Start Time:

End Time:

Start Point UTM:

End Point UTM:

Species	Tally
Bobolink	
Eastern Meadowlark	

Pg. \_\_\_ of \_\_\_

Quality Control: This form is complete  & legible .

Signature:

Signature:

(Field Personnel)

(Project Manager)

REV: 2011-06-03 / FORM 014c



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

## Bobolink and Eastern Meadowlark Breeding Survey Form

**Stantec**

Project Number: 160950443

Project Name: HAMILTON - SCUBE

Date: JULY 4 2012

Field Personnel: MICHAEL OLIVEIRA

<b>Weather Conditions:</b>	TEMP (°C): <u>20°C</u>	WIND: <u>1-2</u>	CLOUD: <u>50%</u>	PPT: <u>Ø</u>	PPT (in last 24 hrs): <u>Ø</u>
----------------------------	---------------------------	---------------------	----------------------	------------------	-----------------------------------

*Please mark transect location on map and indicate areas of species observations on map.*

Transect No.: PT.#3

Habitat: OPEN FIELD

Start Time: 06:15

End Time: 06:25

Start Point UTM: \_\_\_\_\_

End Point UTM: \_\_\_\_\_

Species	Tally
Bobolink	Ø
Eastern Meadowlark	Ø

Transect No.: \_\_\_\_\_

Habitat: \_\_\_\_\_

Start Time: \_\_\_\_\_

End Time: \_\_\_\_\_

Start Point UTM: \_\_\_\_\_

End Point UTM: \_\_\_\_\_

Species	Tally
Bobolink	
Eastern Meadowlark	

Pg. 1 of 1

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

  
 (Field Personnel)

Quality Control: This form is complete  & legible .

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

(Project Manager)

REV: 2011-06-03 / FORM 014c



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## Bobolink and Eastern Meadowlark Breeding Survey Form

**Stantec**

Project Number: 160950443

Project Name: Scuba parcels

Date: July 12, 2012

Field Personnel: D. Graham

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>16.25</u>	<u>0-1</u>	<u>10%</u>	<u>None</u>	<u>None</u>

Please mark transect location on map and indicate areas of species observations on map.

3  
Transect No.: 3

Habitat: \_\_\_\_\_

Start Time: 5<sup>45</sup>

End Time: 5<sup>55</sup>

Start Point UTM: 608483, 4784921

End Point UTM: sand

Species	Tally
Bobolink	<u>∅</u>
Eastern Meadowlark	<u>∅</u>

16  
Transect No.: 16

Habitat: \_\_\_\_\_

Start Time: 8<sup>35</sup>

End Time: 8<sup>40</sup>

Start Point UTM: 608784, 4785104

End Point UTM: \_\_\_\_\_

Species	Tally
Bobolink	<u>3 (Flyovers)</u>
Eastern Meadowlark	<u>∅</u>

Pg. \_\_\_ of \_\_\_

Quality Control: This form is complete  & legible .

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

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

(Project Manager)

REV: 2011-06-03 / FORM 014c



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

## Birding Point Counts Survey Observation Form

**Stantec**

Project Number: 60950443  
 Date: June 26, 2012

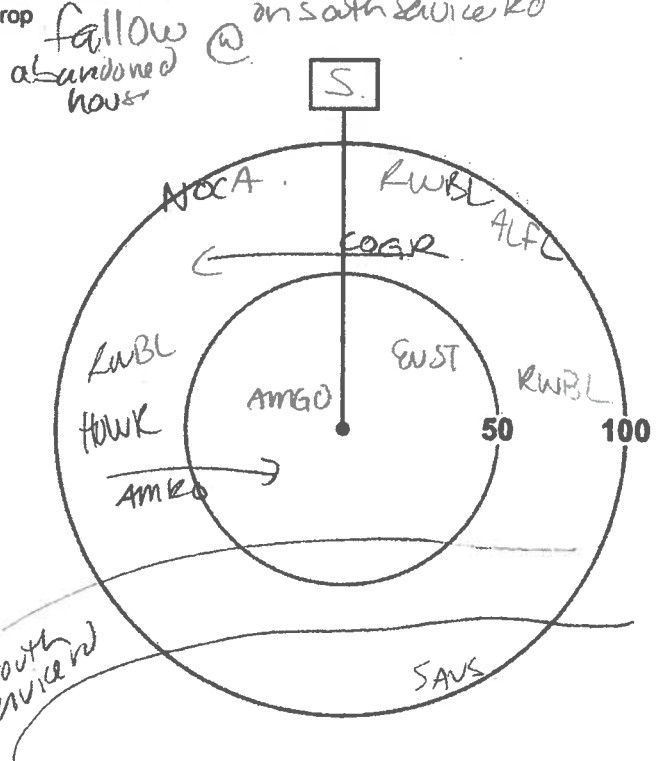
Project Name: Hamilton-SCUBE  
 Field Personnel: N. Kopysh

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>15° at 1900</u>	<u>0-1</u>	<u>20°</u>	<u>∅</u>	<u>∅</u>

GPS #: T

Station: 11 Feature: \_\_\_\_\_ UTM: 0610535  
 Start Time: 05:50 End Time: 05:55 4785535  
 Habitat:  Forest /  Swamp /  Marsh /  Hay /  Pasture /  Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
NOCA		1			
KWBL		3			
AMGO	1				
EUST	1				
AMRO				1	
SANS		1			
HOWK		1			



\* Height of blade sweep varies from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

note: heavy south service rd. noise

Page 1 of 5  
 Signature: N. Kopysh

(Field Personnel)

Quality Control: This form is complete  & legible .

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

(Project Manager)

Station: 12

Feature: \_\_\_\_\_

UTM: 0610406/4785875

Start Time: 06:05

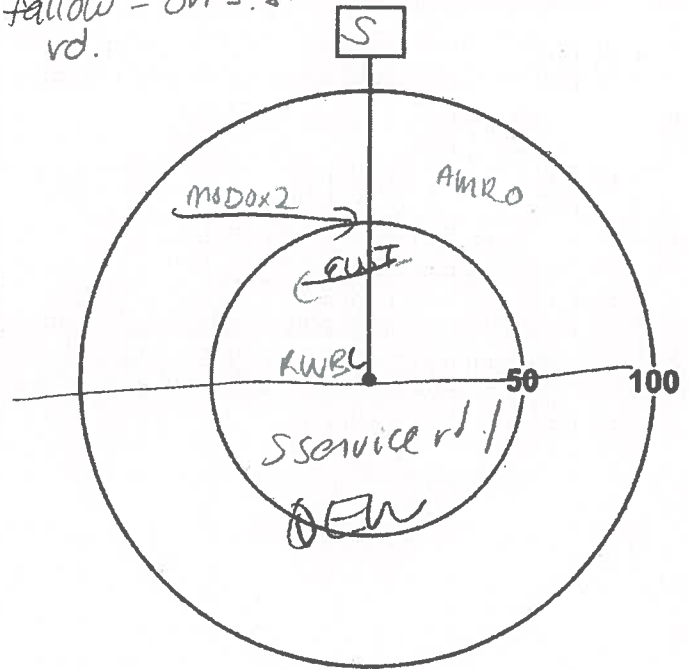
End Time: 06:10

*note hwy noise*

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
MADO				2	
AMRO		1			
EWSP				1	
RWBL	1				

*follow - on S. service rd.*



\* Height of blade sweep will vary from project to project; check with project manager.  
O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
C-Above height of blade sweep; D-Well above height of blade sweep

Station: 13

Feature: \_\_\_\_\_

UTM: 0610234

Start Time: 06:14

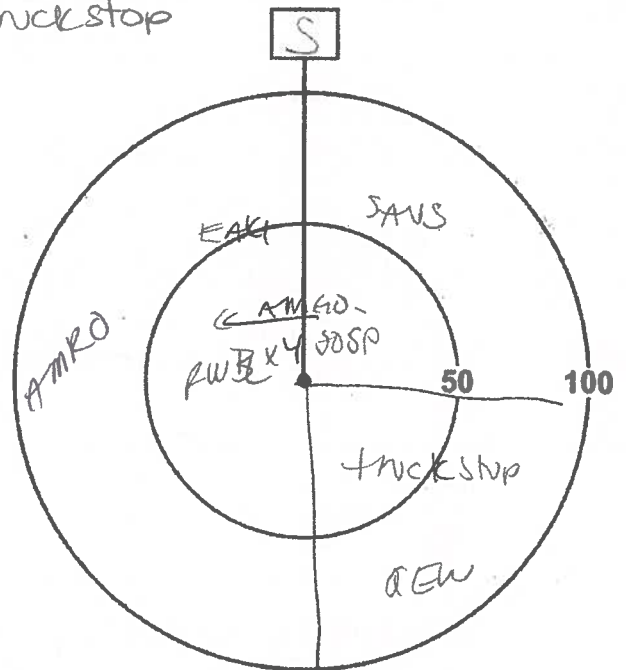
End Time: 06:19

4785771

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
EAKI		1			
SAUS		1			
AMRO				1	
SDSP	1				
RWBL	4				
AMPO		1			

*follow @ truck stop*



\* Height of blade sweep will vary from project to project; check with project manager.  
O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
C-Above height of blade sweep; D-Well above height of blade sweep

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

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

(Field Personnel)

Quality Control: This form is complete  & legible .

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

(Project Manager)

REV: 2011-05-04 / FORM 020

Station: 14

Feature: \_\_\_\_\_

UTM: 0180371  
4785737

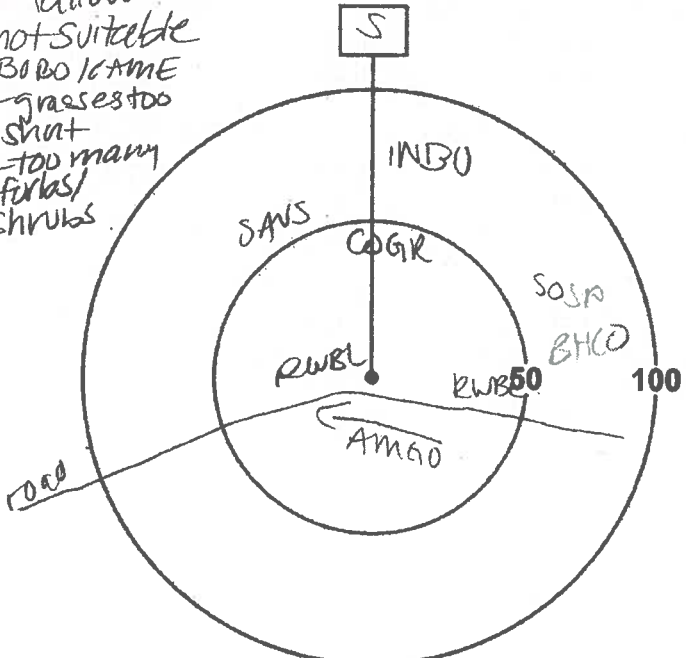
Start Time: 06:25

End Time: 06:30

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

*fallow  
not suitable  
BOBO / KAME  
- grasses too  
short  
- too many  
forks/  
shrubs*

Species	<50m	50-100m	>100m	Flyovers	Height*
INBU		1			
SANS		1			
COGR	1				
RWBL	2				
AMGO				1	
BHCO		1			



\* Height of blade sweep will vary from project to project; check with project manager.  
O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
C-Above height of blade sweep; D-Well above height of blade sweep

Station: 16

Feature: \_\_\_\_\_

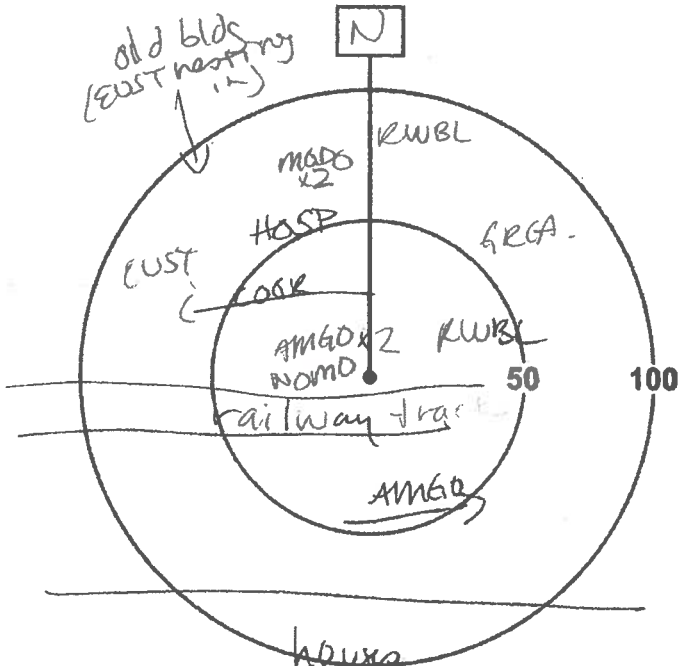
UTM: 0609860  
4785605

Start Time: 06:38

End Time: 06:42

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
MODO		2			
RWBL	1	1			
HOSP		1			
EUST		1			
COGR				1	
AMGO	2			1	
NOMO	1				
GRGA		1			



\* Height of blade sweep will vary from project to project; check with project manager.  
O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
C-Above height of blade sweep; D-Well above height of blade sweep

Page 2 of 5

Signature: [Signature]

(Field Personnel)

Quality Control: This form is complete  & legible

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

(Project Manager)



Station: 15

Feature: \_\_\_\_\_

UTM: 6010049 /

Start Time: 06:50

End Time: 06:55

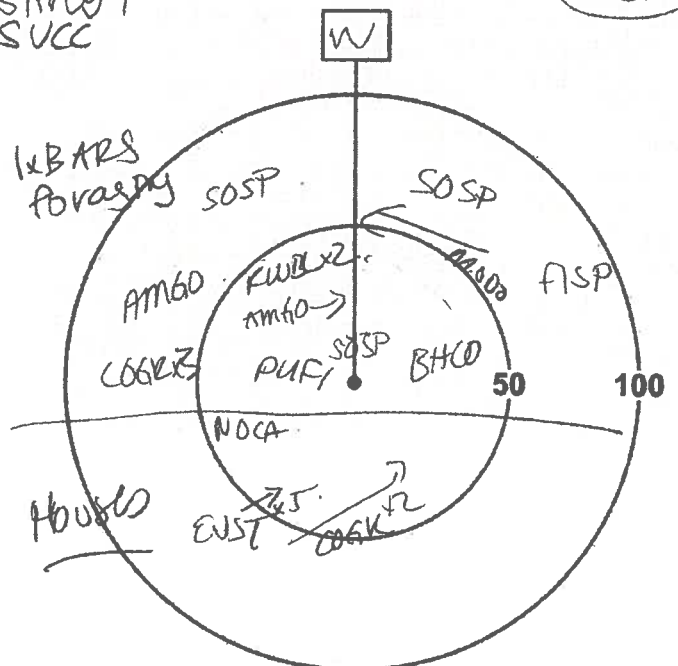
4785387

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

1 BARS obs

Species	<50m	50-100m	>100m	Flyovers	Height*
BARS			1		
SOSP	1	2			
AM60	1	1			
LOGR		3		2	
BHCO	1				
PUR1	1				
RWBL	2				
NOCA	1				
QUST	5				

shrub /  
SUCC



\* Height of blade sweep will vary from project to project; check with project manager.  
O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
C-Above height of blade sweep; D-Well above height of blade sweep

Station: 8

Feature: \_\_\_\_\_

UTM: 6010065 /

Start Time: 07:04

End Time: 07:09

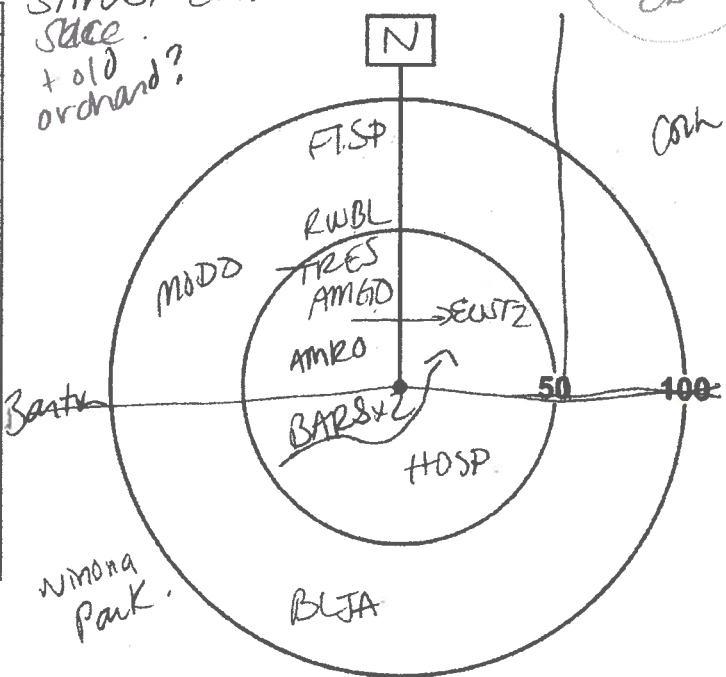
4785097

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

2 BARS obs

Species	<50m	50-100m	>100m	Flyovers	Height*
FISP		1			
RWBL		1			
TRES	1				
AM60	1				
AMRO	1				
EUST	2				
BARS				2	
BLJA		1			
HOSP	2				

shrub /  
SUCC  
+ old  
orchard?



\* Height of blade sweep will vary from project to project; check with project manager.  
O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
C-Above height of blade sweep; D-Well above height of blade sweep

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

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

Quality Control: This form is complete  & legible .

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

Station: 7

Feature: \_\_\_\_\_

UTM: 069246 /

Start Time: 07:16

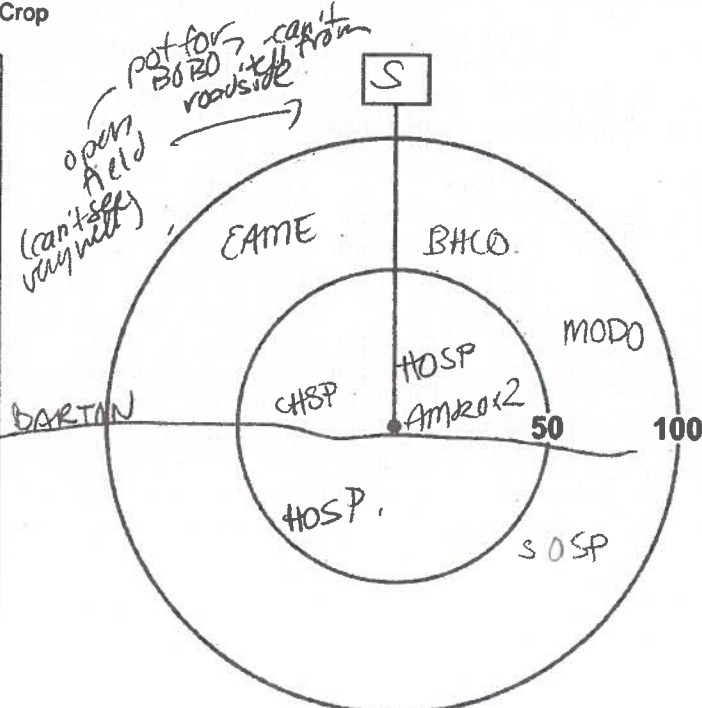
End Time: 07:21

4785339

EAME

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
EAME		1			
BHCO		1			
MODO		1			
HOSP	2				
CHSP	1				
AMRO	2				
SOSP		1			



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

Station: 4

Feature: \_\_\_\_\_

UTM: 0608758 /

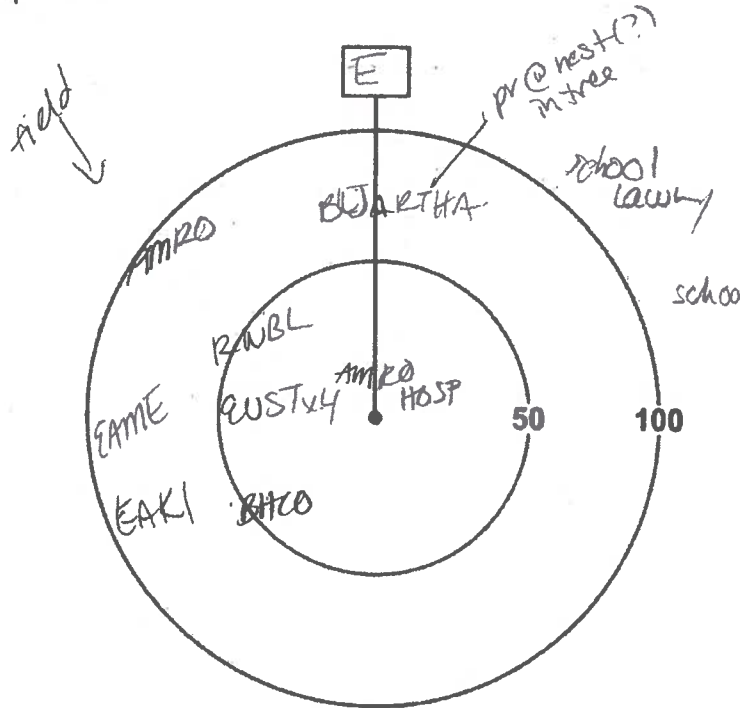
Start Time: 07:27

End Time: 07:32

4785292

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
AMRO	1	1			
BJA		1			
RTHA		1			
RWBL	1				
RUST	4				
HOSP	1				
BHCO	1				
EAKI		1			
EAME		1			



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

Signature: [Signature]  
 (Field Personnel)

Quality Control: This form is complete  & legible .

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

Station: 3

Feature: \_\_\_\_\_

UTM: 0608816 /

Start Time: 07:42

End Time: 07:47

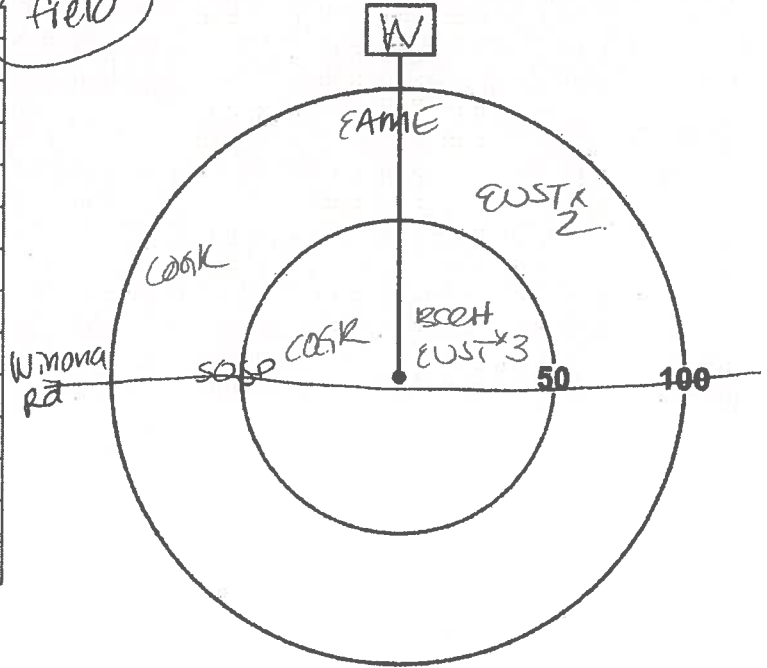
4785156

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

\*EAME

open field

Species	<50m	50-100m	>100m	Flyovers	Height*
EAME		1			
EUST	3	2			
BOCH	1				
COGR	1	1			
SOSP		1			



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

Station: 17

Feature: \_\_\_\_\_

UTM: 0608784

Start Time: 07:49

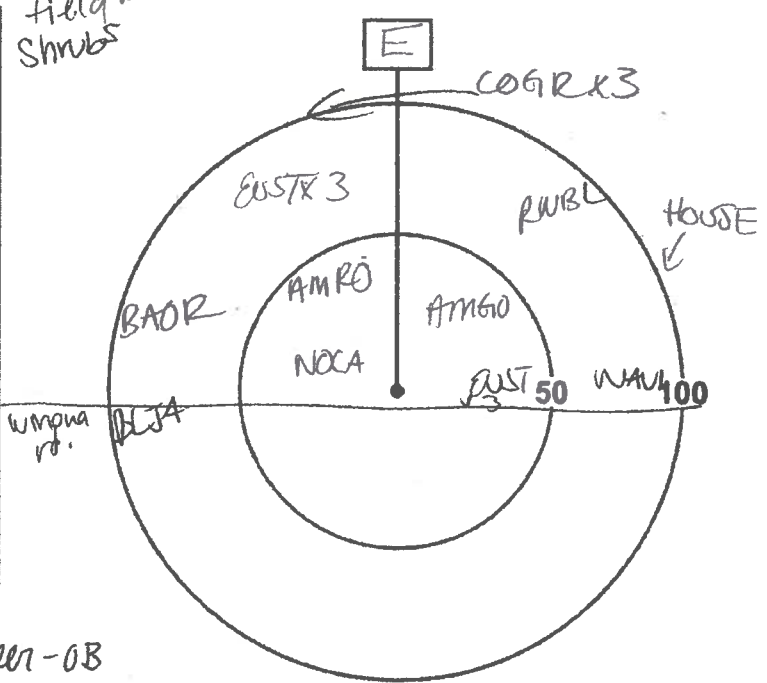
End Time: 07:54

4785104

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

field w/ shrubs

Species	<50m	50-100m	>100m	Flyovers	Height*
BAOR		1			
BLJA		1			
AMRO	1				
NOCA	1				
AMGO	1				
EUST	3	3			
RWBL	1				
NAVI		1			
COGR				3	



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

-deer-OB

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

Quality Control: This form is complete  & legible .

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

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

Station: 5

Feature: \_\_\_\_\_

UTM: 0608294

Start Time: 08:35

End Time: 08:40

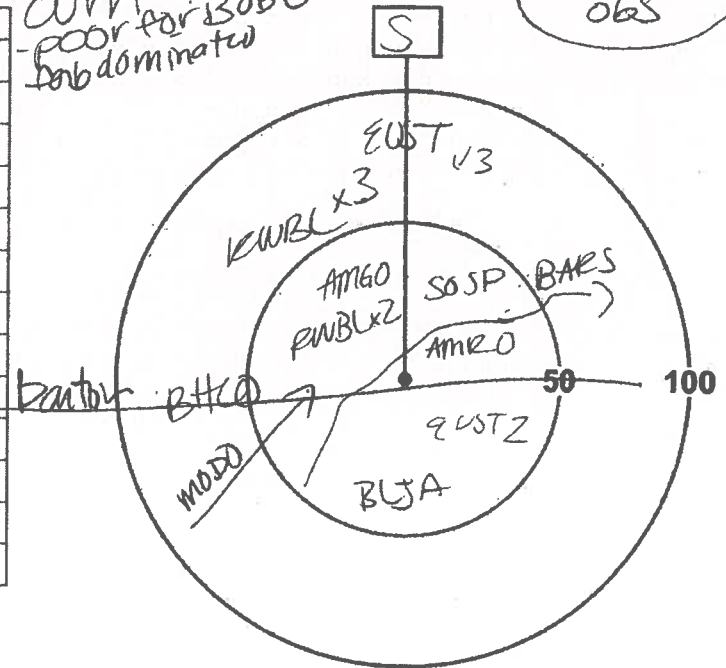
4785534

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

\*1 BARS obs

Species	<50m	50-100m	>100m	Flyovers	Height*
EUST	2	3			
BARS				1	
RWBL	2	3			
AMGO	1				
SOJP	1				
AMRO	1				
MODD				1	
BHCO		1			
BLJA	1				

*CUM poor for BOBO  
forb dominated*



\* Height of blade sweep will vary from project to project; check with project manager.  
O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
C-Above height of blade sweep; D-Well above height of blade sweep

Station: 6

Feature: \_\_\_\_\_

UTM: \_\_\_\_\_

Start Time: 08:45

End Time: 08:50

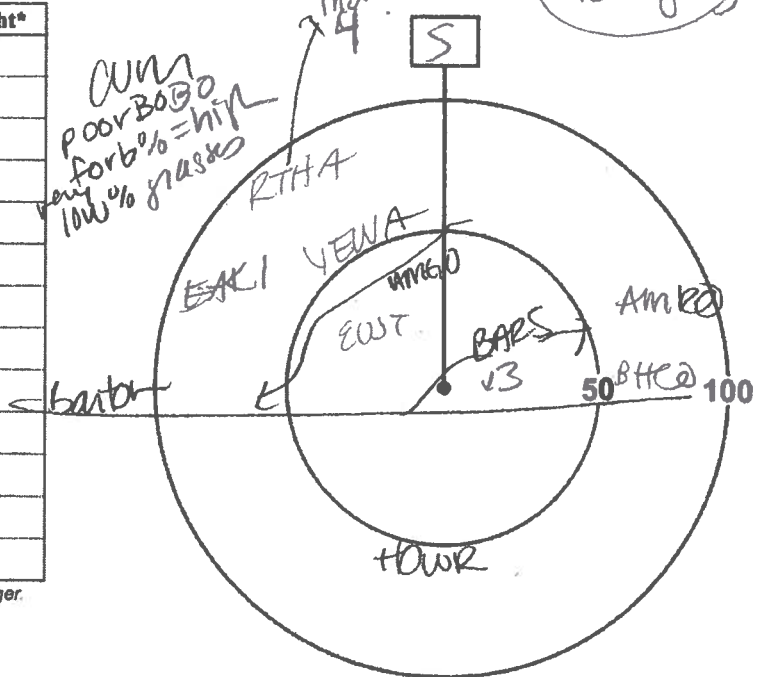
Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

\*3 BARS foraging

Species	<50m	50-100m	>100m	Flyovers	Height*
RTHA		1			
YENA		1			
EAKI		1			
AMRO				1	
EUST	1				
BARS				3	
AMRO		1			
BHCO		1			

*CUM poor BOBO  
very forb% = high  
100% grasses*

*likely same  
? modiv from str*



\* Height of blade sweep will vary from project to project; check with project manager.  
O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
C-Above height of blade sweep; D-Well above height of blade sweep

Page 4 of 5  
Signature: [Signature]  
(Field Personnel)

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

Station: 2

Feature: \_\_\_\_\_

UTM: 608484

Start Time: 08:10

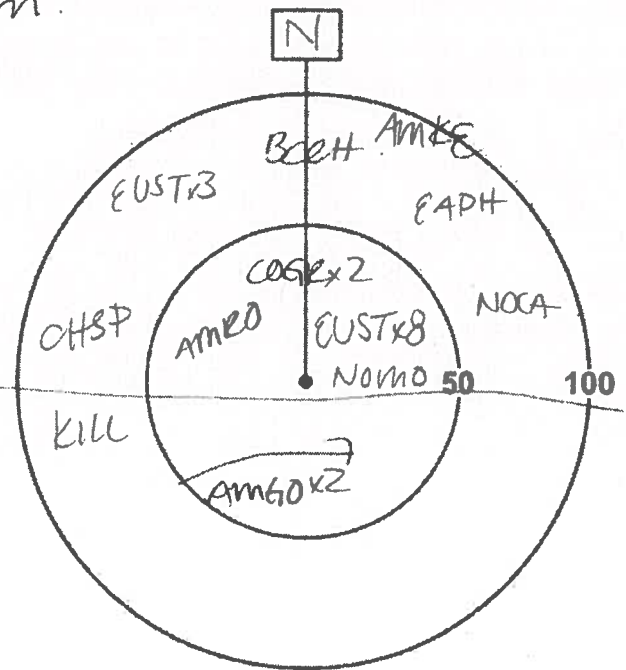
End Time: 08:15

4784922

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
EUST	8	3			
BCEH		1			
AMKE		1			
EAPH		1			
NOCA		1			
NOMO	1				
COGR	2				
AMRO	1				
KILL		1			
AMGO				2	

cum.



\* Height of blade sweep will vary from project to project; check with project manager.

O-On ground; A-Below height of blade sweep; B-At height of blade sweep; C-Above height of blade sweep; D-Well above height of blade sweep

Station: 1

Feature: \_\_\_\_\_

UTM: 607994

Start Time: 08:20

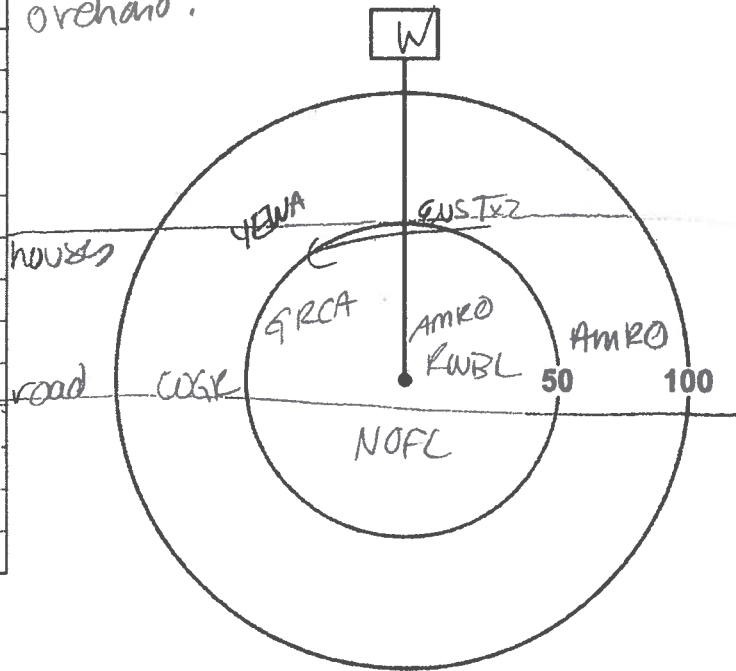
End Time: 08:25

4785266

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
NOFL	1				
GRCA	1				
AMRO	1	1			
RWBL	1				
COGR		1			
VENA		1			
EUST				2	

overhand?



\* Height of blade sweep will vary from project to project; check with project manager.

O-On ground; A-Below height of blade sweep; B-At height of blade sweep; C-Above height of blade sweep; D-Well above height of blade sweep

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

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

(Field Personnel)

Quality Control: This form is complete  & legible .

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

(Project Manager)

Station: 18

Feature:

UTM: 0610787

Start Time: 09:00

End Time: 09:05

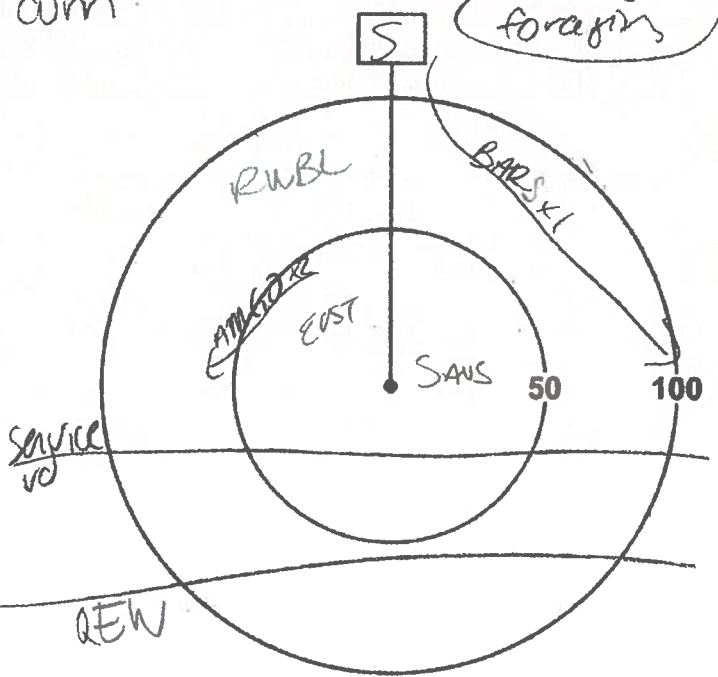
4785550

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
RWBL		1			
BARJ				1	
EUST	1				
AMGO				2	
SAUS	1				

cum

4 BARJ foraging



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

Station: 19

Feature:

UTM: 011228 /

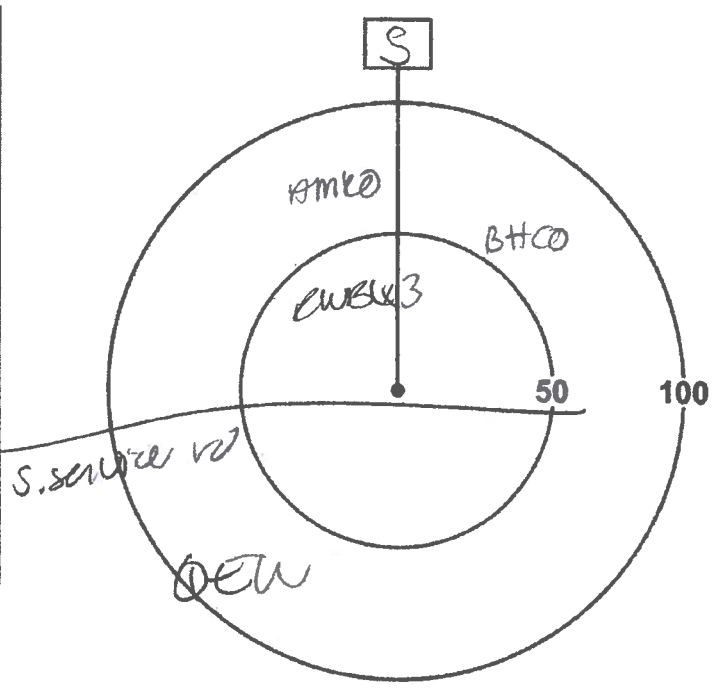
Start Time: 09:10

End Time: 09:15

4785587

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
AMRO		1			
BHCO		1			
RWBL	3				



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

Page 5 of 5

Signature: [Handwritten Signature]

(Field Personnel)

Quality Control: This form is complete  & legible .

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

(Project Manager)



**Stantec Consulting Ltd.**  
 1 - 70 Southgate Drive  
 Guelph, ON  
 Canada N1G 4P5  
 Tel: (519) 836-8050  
 Fax: (519) 836-2493

## Birding Point Counts Survey Observation Form

**Stantec**

Project Number: 160950443

Project Name: HAMILTON - SCUBE

Date: JULY 4, 2012

Field Personnel: MICHAEL OLIVEIRA

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>19°C</u>	<u>1</u>	<u>20%</u>	<u>Ø</u>	<u>Ø</u>

GPS #: T N/A

Station: 1

Feature: \_\_\_\_\_

UTM: 0607994

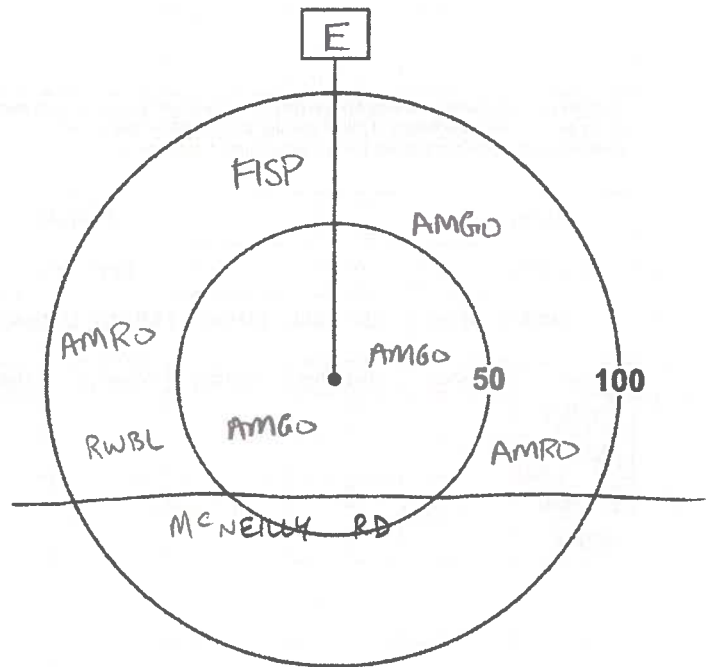
Start Time: 05:43

End Time: 05:48

4785266

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
AMGO	2	1			
AMRO		2			
FISP		1			
RWBL		1			



\* Height of blade sweep varies from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

Signature: [Signature]  
 (Field Personnel)

Quality Control: This form is complete  & legible .

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

Station: 2

Feature: \_\_\_\_\_

UTM: 0608483

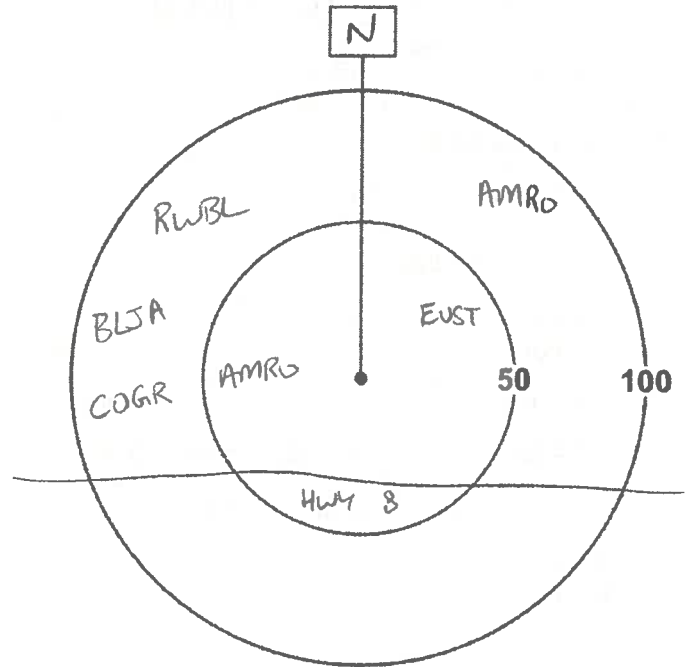
Start Time: 05:57

End Time: 06:02

4784921

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
AMRO	1	1			
RWBL		1			
BLJA		1			
COGR		1			
EUST	1				



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

Station: 3

Feature: \_\_\_\_\_

UTM: 0608813

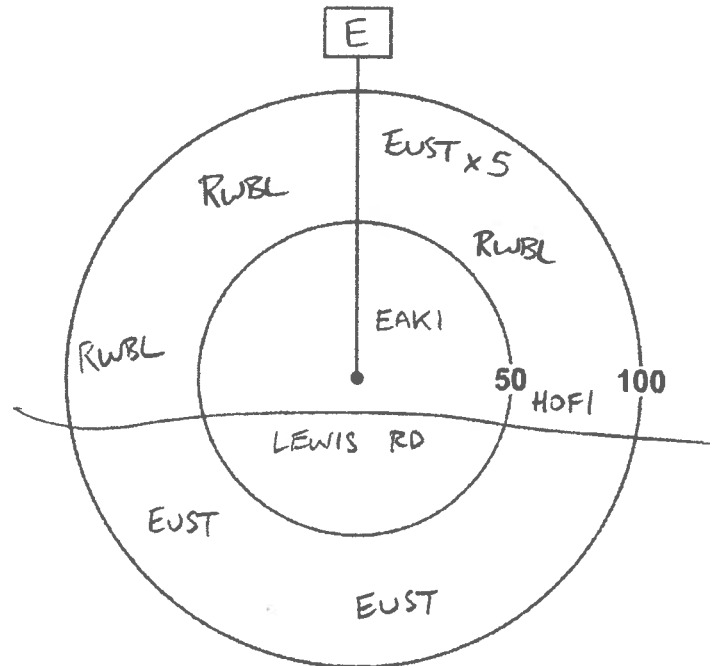
Start Time: 6:09

End Time: 6:14

4785148

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
EUST		7			
EAKI	1				
RWBL		3			
HOPI		1			



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

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

  
 (Field Personnel)

Quality Control: This form is complete  & legible .

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

(Project Manager)



Station: 4

Feature: \_\_\_\_\_

UTM: 0608764

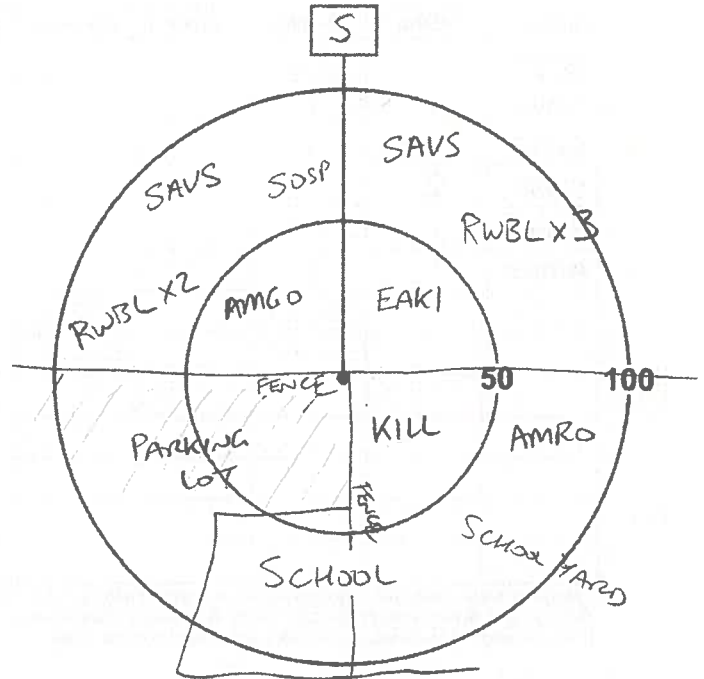
Start Time: 06:29

End Time: 06:34

4785285

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
AMGO	1				
SAVS		2			
KILL	1				
RWBL		5			
SOSP		1			
AMRO		1			
EAKI	1				



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

Station: 5

Feature: \_\_\_\_\_

UTM: 0608293

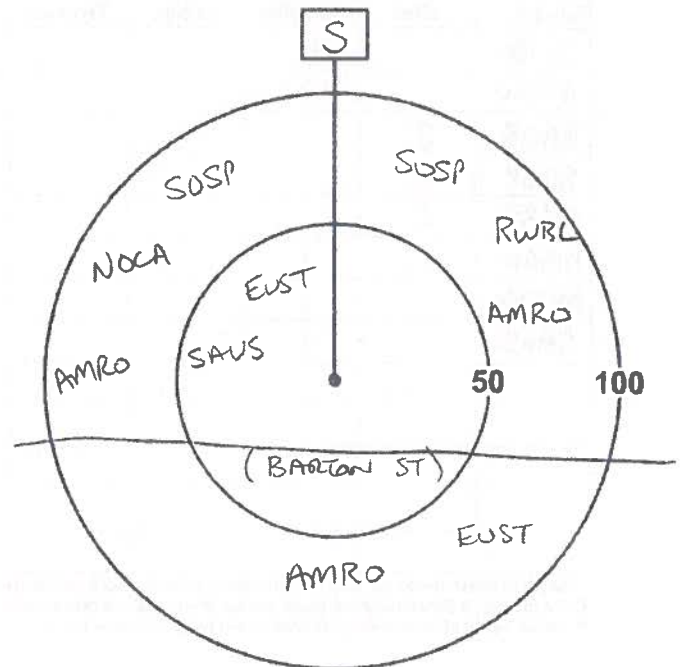
Start Time: 06:40

End Time: 06:45

4785532

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
EUST	1	1			
AMRO		3			
SOSP		2			
NOCA		1			
SAVS	1				
RWBL		1			



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

Page 3 of 9

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

  
 (Field Personnel)

Quality Control: This form is complete  & legible .

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

(Project Manager)

REV: 2011-05-04 / FORM 020

Station: 6

Feature: \_\_\_\_\_

UTM: 0608587

Start Time: 06:51

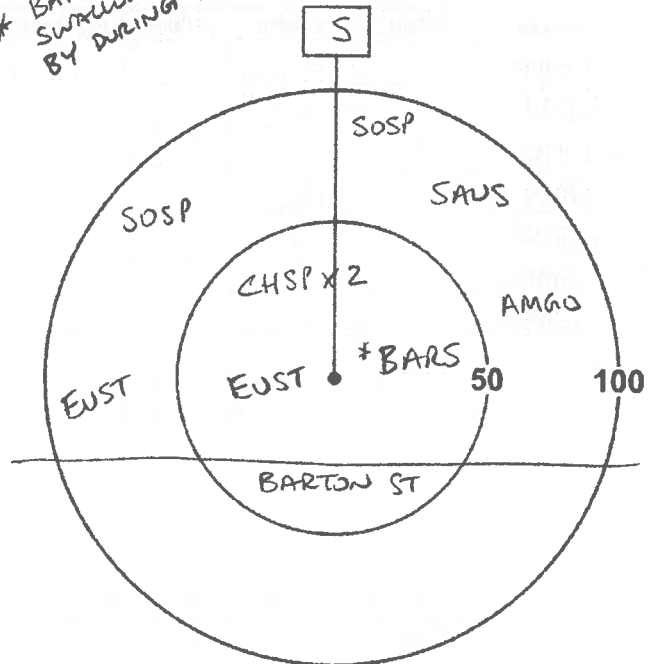
End Time: 06:56

4785464

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

\* ① BARN SWALLOW FLEW BY DURING P.C.

Species	<50m	50-100m	>100m	Flyovers	Height*
SOSP		2			
SAUS		1			
EUST	1	1			
CHSP	2				
BARS	1				
AMGO		1			



\* Height of blade sweep will vary from project to project; check with project manager.  
O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
C-Above height of blade sweep; D-Well above height of blade sweep

Station: 7

Feature: \_\_\_\_\_

UTM: 0609227

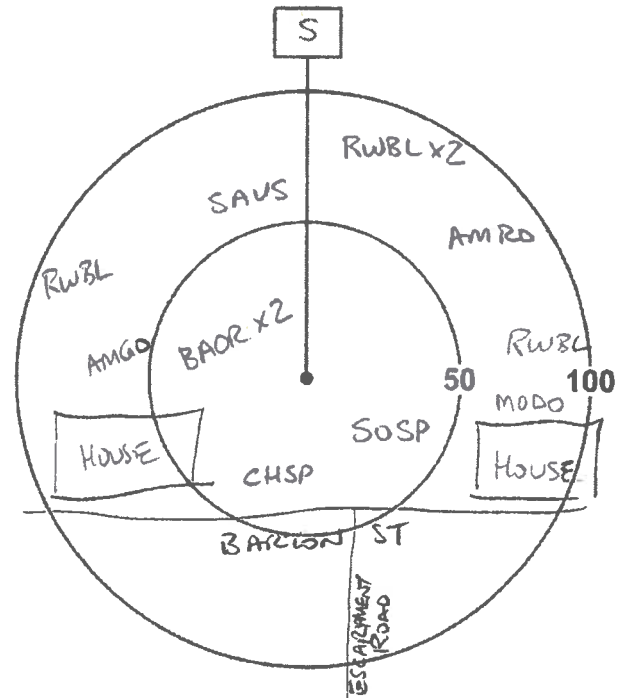
Start Time: 07:03

End Time: 07:08

4785257

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
RWBL		4			
AMRO		1			
BAOR	2				
SOSP	1				
CHSP	1				
AMGO		1			
MODO		1			
SAUS		1			



\* Height of blade sweep will vary from project to project; check with project manager.  
O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
C-Above height of blade sweep; D-Well above height of blade sweep

Page 4 of 9

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

Quality Control: This form is complete  & legible .

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

Station: 8

Feature: \_\_\_\_\_

UTM: 0610089

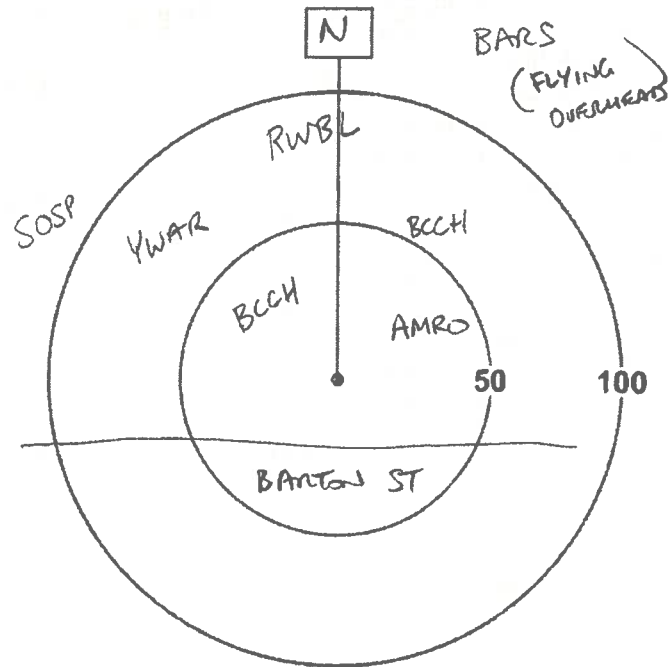
Start Time: 07:16

End Time: 07:21

4785167

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
BCCH	1	1			
AMRO	1				
RWBL		1			
YWAR		1			
SOSP			1		
BARS			2		



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

Station: 11

Feature: \_\_\_\_\_

UTM: 0610501

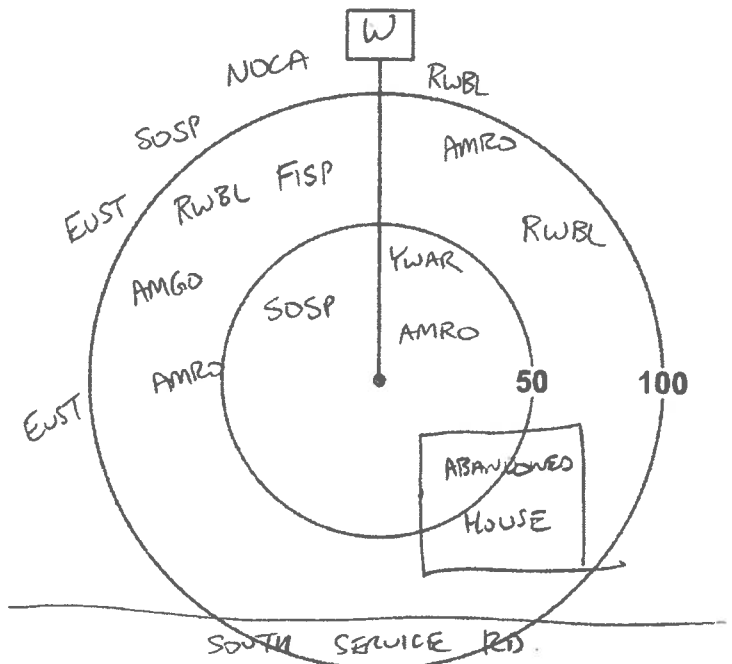
Start Time: 07:36

End Time: 07:41

4785518

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
EUST			2		
AMRO	1	2			
SOSP	1		1		
YWAR	1				
RWBL		2	1		
NOCA			1		
FISP		1			
AMGO		1			



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

Page 5 of 9

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

(Field Personnel)

Quality Control: This form is complete  & legible .

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

(Project Manager)

REV: 2011-05-04 / FORM 020

Station: 12

Feature: \_\_\_\_\_

UTM: 061040S

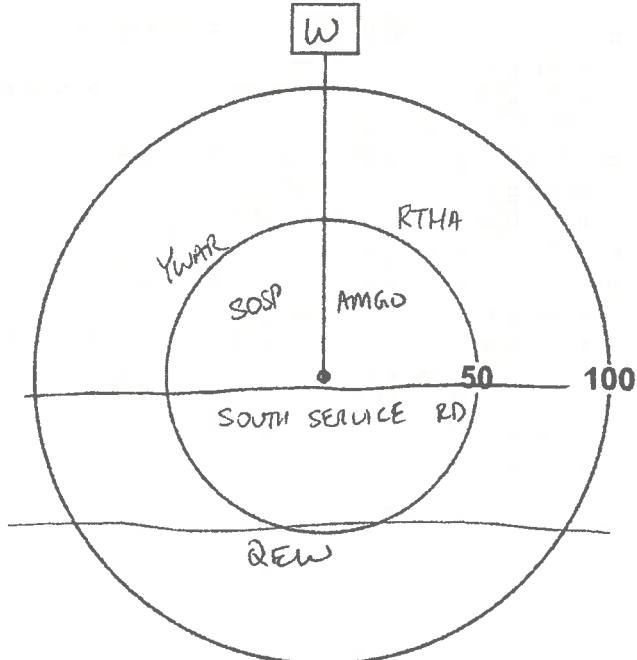
Start Time: 07:46

End Time: 07:51

4785844

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
AMGO	1				
SOSP	1				
RTHA		1			
YWAR		1			



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

Station: 13

Feature: \_\_\_\_\_

UTM: 0610234

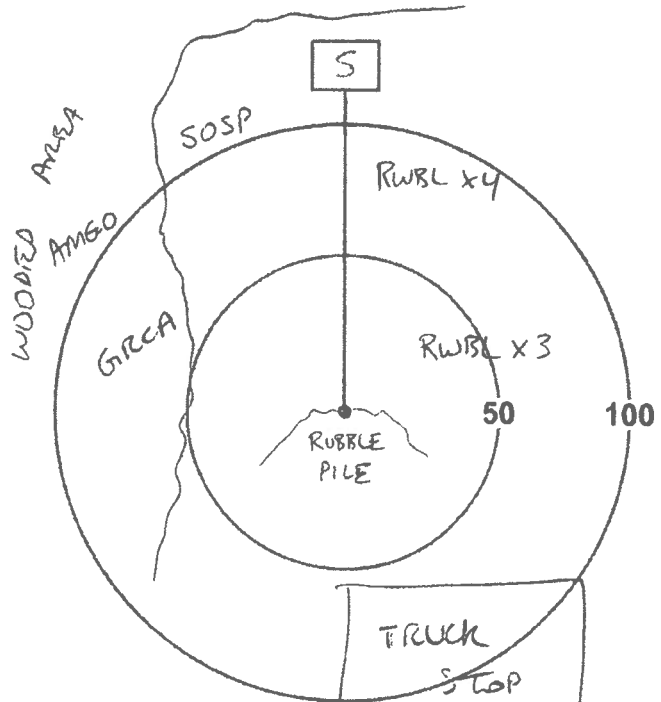
Start Time: 08:00

End Time: 08:05

4785765

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
RWBL	3	4			
AMGO			1		
GRCA		1			
SOSP			1		



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

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

Quality Control: This form is complete  & legible .

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



Station: 16

Feature: \_\_\_\_\_

UTM: 0609848

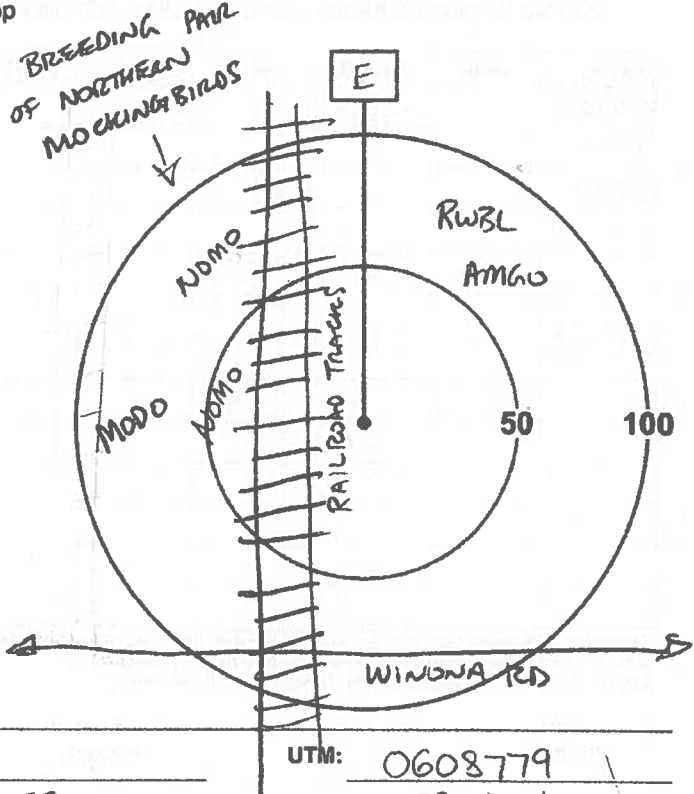
Start Time: 08:36

End Time: 08:41

4785592

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
RWBL		1			
AMGO		1			
NOMO	1	1			
MODO		1			



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

Station: 17

Feature: \_\_\_\_\_

UTM: 0608779

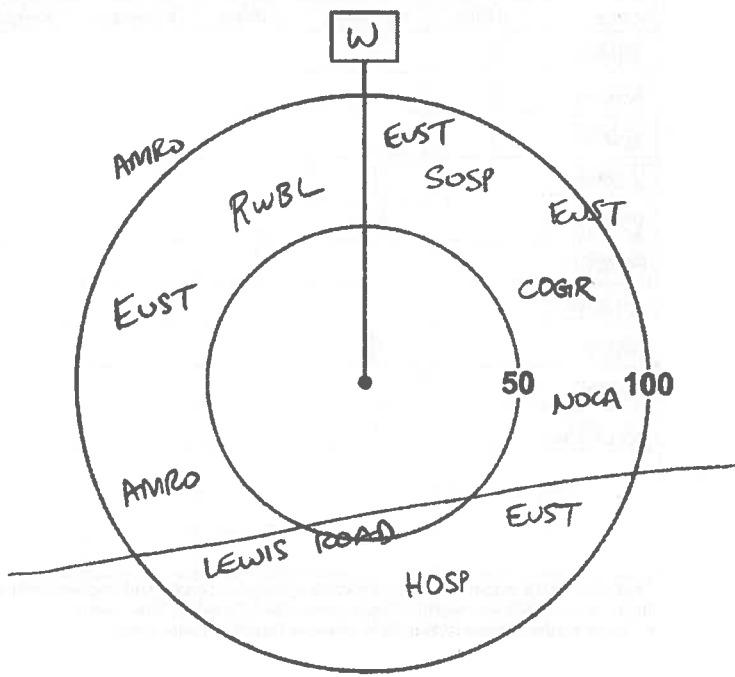
Start Time: 08:53

End Time: 08:58

4785104

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
EUST		4			
RWBL		1			
SOSP		1			
COGR		1			
NOCA		1			
AMRO		1	1		
HOSP		1			



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

Page 8 of 9

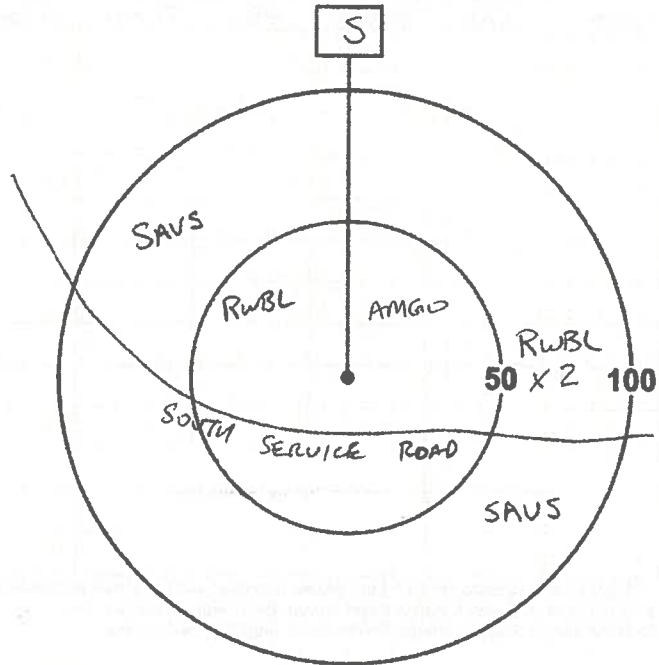
Signature: \_\_\_\_\_  
 (Field Personnel)

Quality Control: This form is complete  & legible .

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

Station: 18 Feature: \_\_\_\_\_ UTM: 0610793  
 Start Time: 09:08 End Time: 09:13 4785545  
 Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

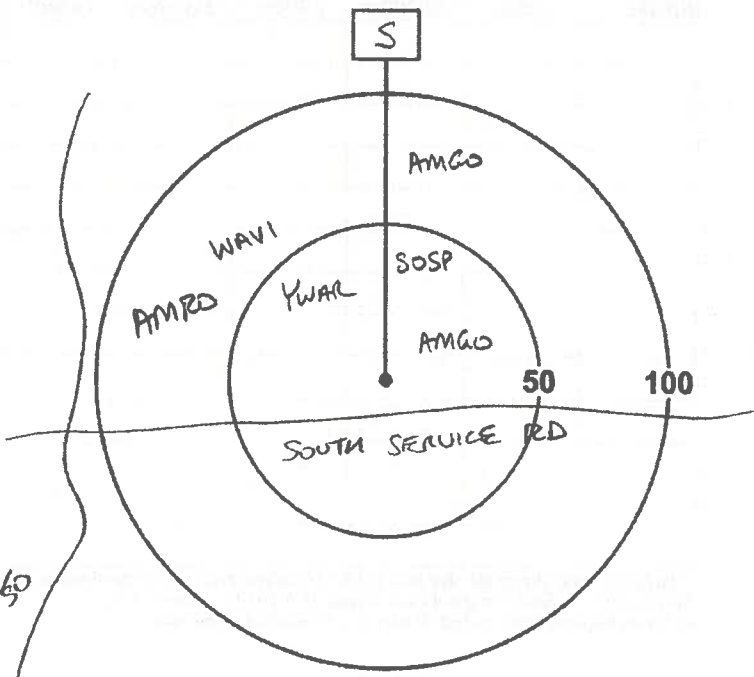
Species	<50m	50-100m	>100m	Flyovers	Height*
SAVS		2			
RWBL	1	2			
AMGO	1				



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

Station: 19 Feature: \_\_\_\_\_ UTM: 0611221  
 Start Time: 09:35 End Time: 09:40 4785578  
 Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
YWAR	1				
WAVI		1			
AMRO		1			
SOSP	1				
AMGO	1	1			



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

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

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



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

## Birding Point Counts Survey Observation Form

**Stantec**

Project Number: 160950443

Project Name: Scobe parcels

Date: July 12, 2012

Field Personnel: D. Graham

Weather Conditions:	TEMP (°C):	WIND:	CLOUD:	PPT:	PPT (in last 24 hrs):
	<u>16-25</u>	<u>0-1</u>	<u>100</u>	<u>None</u>	<u>None</u>

GPS #: T

Station: \_\_\_\_\_

Feature: \_\_\_\_\_

UTM: 607994

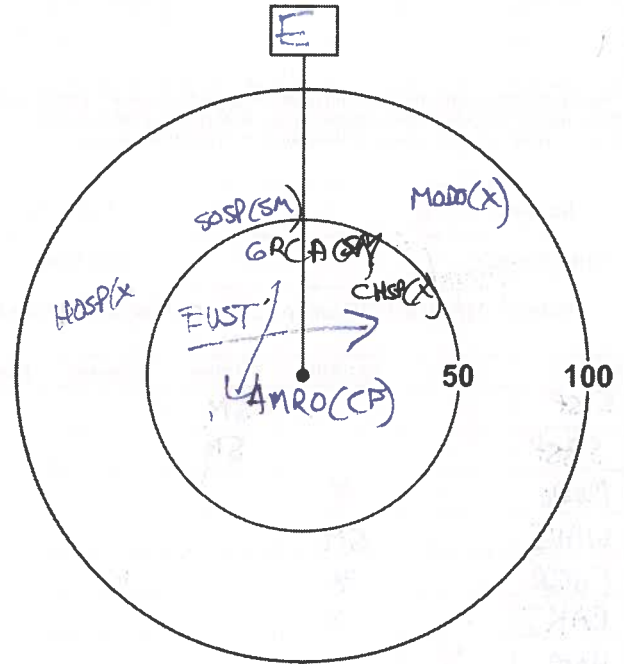
Start Time: 5<sup>30</sup>

End Time: 5<sup>35</sup>

4785266

Habitat:  Forest /  Swamp /  Marsh /  Hay /  Pasture /  Crop residential

Species	<50m	50-100m	>100m	Flyovers	Height*
MOBO		X			
SOSP		SM			
GRCA	SM				
CHSP	X				
EUST	X			✓	
AMRO	CF				
HOOP		X			



\* Height of blade sweep varies from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

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

Quality Control: This form is complete  & legible .

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

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



Station: 2

Feature: \_\_\_\_\_

UTM: 608483

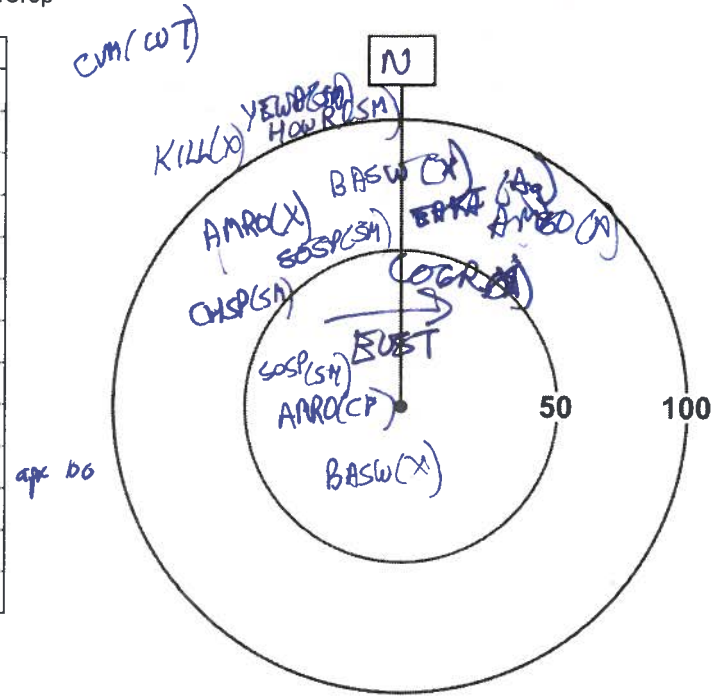
Start Time: 5<sup>45</sup>

End Time: 5<sup>50</sup>

4784921

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
YEWFA			SM		
HOWR			SM		
KILL			X		
AMRB	CF	X			
CHSP		SM			
BASW	✓	X		✓	
SOSP	SM	SM			
EAKI		Ag			
AM60		X		✓	
COGR	X			✓	
EUST	X			✓	



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

Station: 3

Feature: \_\_\_\_\_

UTM: 608816

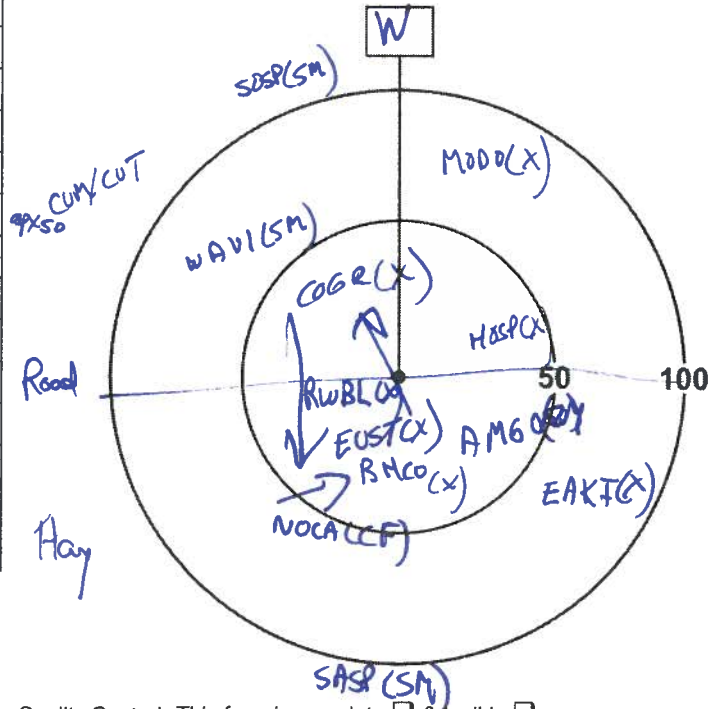
Start Time: 6<sup>00</sup>

End Time: 6<sup>10</sup>

4785156

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
SOSP			SM		
SASP			SM		
MO DO		X			
WAVI		SM			
COGR		X		✓	
EAKI		X			
HOSP	X				
AM60	SM				
RWBL	X			✓	
EUST	X				
BHCO	X				
NOCA		CF			



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

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

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

(Field Personnel)

Quality Control: This form is complete  & legible .

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

(Project Manager)

REV: 2011-05-04 / FORM 020

Station: 4

Feature:

UTM: 608758

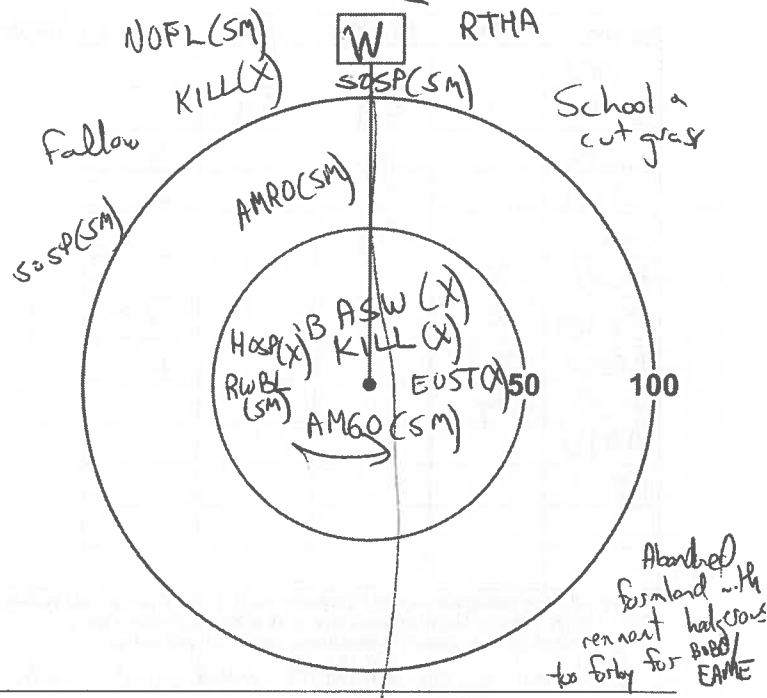
Start Time: 6<sup>15</sup>

End Time: 6<sup>20</sup>

4785292

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
RTHA			SM	✓	
NOFL			SM		
KILL	X		X		
SOSP			SM		
AMRO		SM			
BASW	3 X			✓	
HOSP	X				
RWBL	SM				
AMGO	SM				
EUST	X				



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

Station: 5

Feature:

UTM: 608294

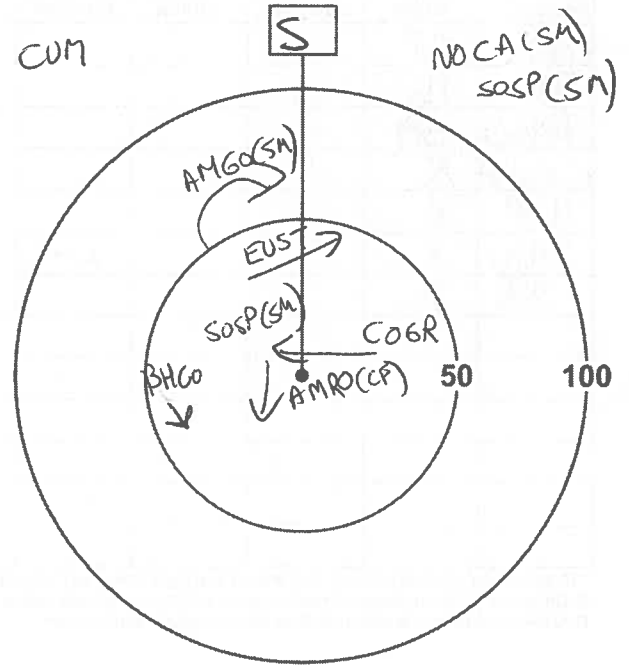
Start Time: 6<sup>35</sup>

End Time: 6<sup>40</sup>

4785534

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
NOCA			SM		
SOSP	SM		SM		
AMGO		SM			
EUST	X			✓	
COGR	X			✓	
AMRO	CF				
BHCO	X			✓	



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

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

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

(Field Personnel)

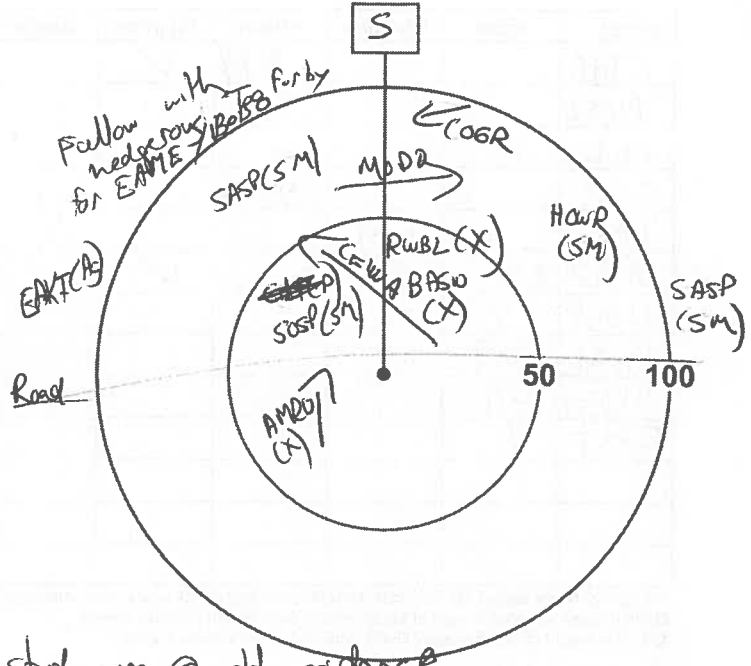
Quality Control: This form is complete  & legible .

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

(Project Manager)

Station: 6 Feature: \_\_\_\_\_ UTM: 608587  
 Start Time: 6<sup>45</sup> End Time: 6<sup>50</sup> 4785464  
 Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

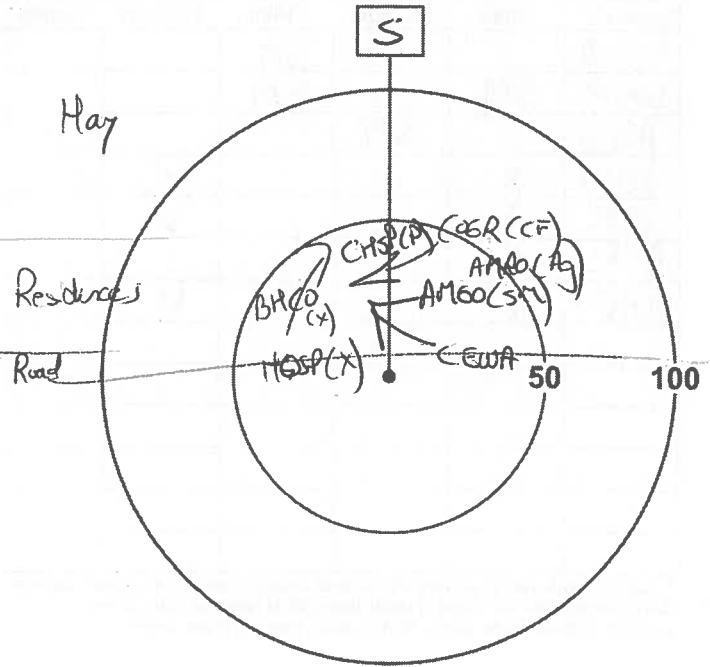
Species	<50m	50-100m	>100m	Flyovers	Height*
EAKI			A <sub>g</sub>		
SASP		SM	SM		
COGR		X		✓	
MO DO		X		✓	
HOWR		SM			
RWBL	X				
CEWA	X			✓	
BASW	X			✓	
SOSP	SM				
AMRO	X				
<i>ER</i>					



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

Station: 7 Feature: Butternut or hybrid butternut noted just north of study area @ old residence UTM: 609246  
 Start Time: 6<sup>55</sup> End Time: 7<sup>00</sup> 4785339  
 Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
COGR	CF				
AMRO	A <sub>g</sub>				
AMGO	SM				
CEWA	X				
HOSP	X				
BHCO	X			✓	
CHSP	P				



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

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

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

Quality Control: This form is complete  & legible .

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

Station: 8

Feature: \_\_\_\_\_

UTM: 610065

Start Time: 7<sup>05</sup>

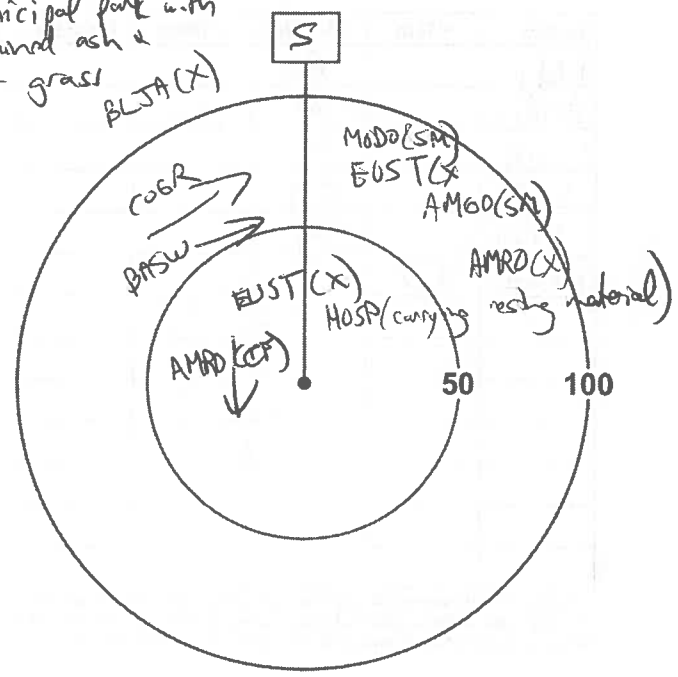
End Time: 7<sup>10</sup>

4785097

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
BLJA			X		
COGR		X		✓	
MOGO		SM			
EUST	X	X			
AMGO		SM			
AMRO	CF	X			
HOSP	carrying	nesting	material		
BASW		X			

Municipal park with retained ash & cut grass  
BLJA(X)



\* Height of blade sweep will vary from project to project; check with project manager.  
O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
C-Above height of blade sweep; D-Well above height of blade sweep

Station: 9

Feature: \_\_\_\_\_

UTM: 610535

Start Time: 7<sup>20</sup>

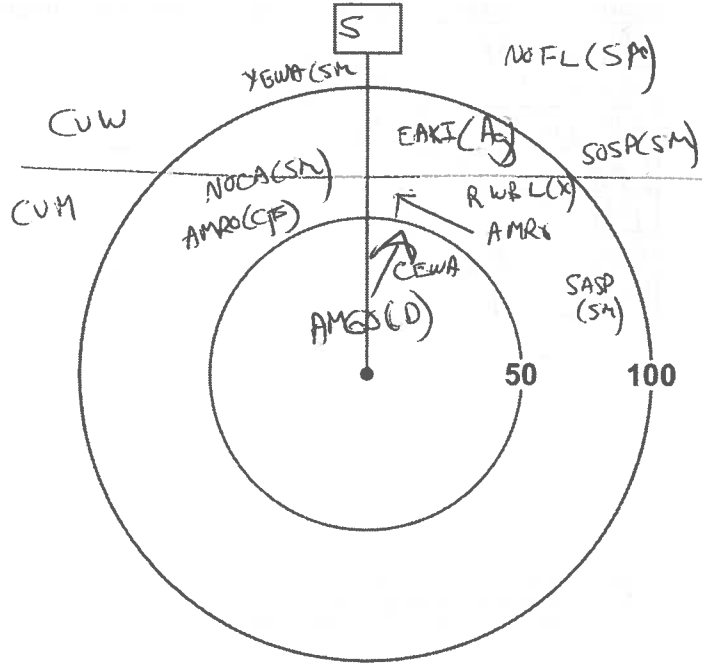
End Time: 7<sup>25</sup>

478553

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
YEWA			SM		
NOFL			SM		
EAKI		Ag			
SOSP			SM		
NOCA		SM			
AMRO		CF		✓	
CEWA	X				
AMBU	D				
SASP		SM			
RWBL		X			

\* Height of blade sweep will vary from project to project; check with project manager.  
O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
C-Above height of blade sweep; D-Well above height of blade sweep



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

Quality Control: This form is complete  & legible .

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

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

(Field Personnel)

(Project Manager)

Station: 10

Feature: \_\_\_\_\_

UTM: 610406

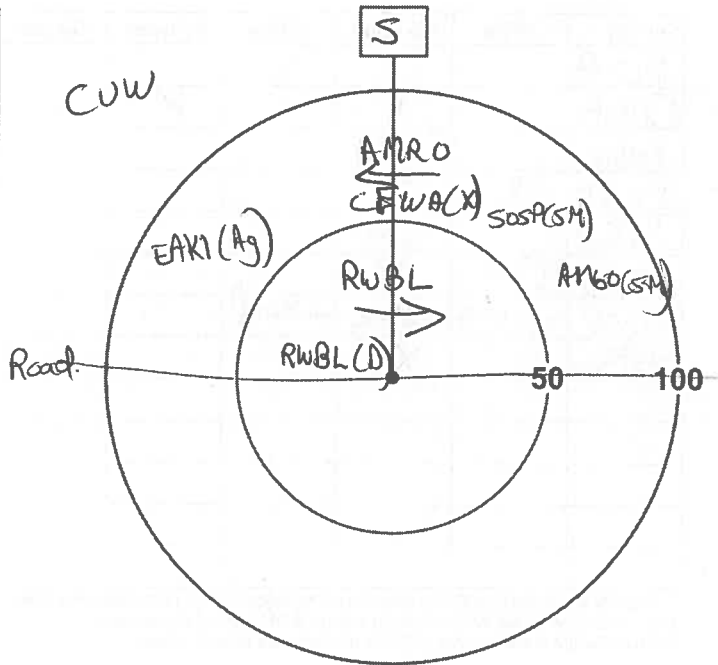
Start Time: 7:30

End Time: 7:35

4785845

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
EAKI		Ag			
AMRO		X			
CEWA		X			
SOSP		SM			
AMGO		SM			
RWBL	D				



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

Station: 11

Feature: \_\_\_\_\_

UTM: 610234

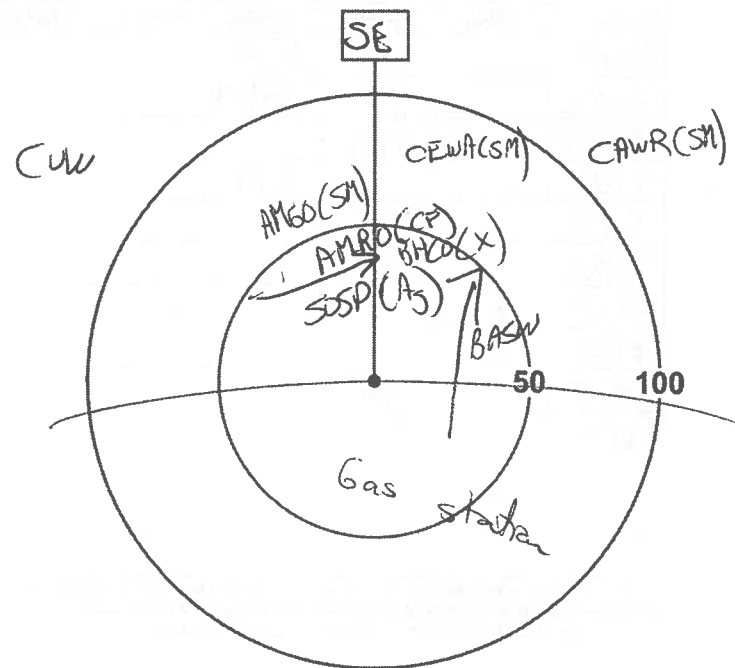
Start Time: 7:45

End Time: 7:50

4785771

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
CAWR	SM				
CEWA		SM			
AMGO		SM			
AMRO	CF				
BHCO	X				
SOSP	Ag				
BASW	X			✓	



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

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

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

(Field Personnel)

Quality Control: This form is complete  & legible .

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

(Project Manager)



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

## Birding Point Counts Survey Observation Form

**Stantec**

Project Number: 160950443

Project Name: Scube Parcels

Date: July 12, 2012

Field Personnel: \_\_\_\_\_

Weather Conditions:	TEMP (°C): <u>16-25</u>	WIND: <u>0-1</u>	CLOUD: <u>100%</u>	PPT: <u>None</u>	PPT (in last 24 hrs): <u>None</u>
---------------------	----------------------------	---------------------	-----------------------	---------------------	--------------------------------------

GPS #: T

Station: 12

Feature: \_\_\_\_\_

UTM: 610037

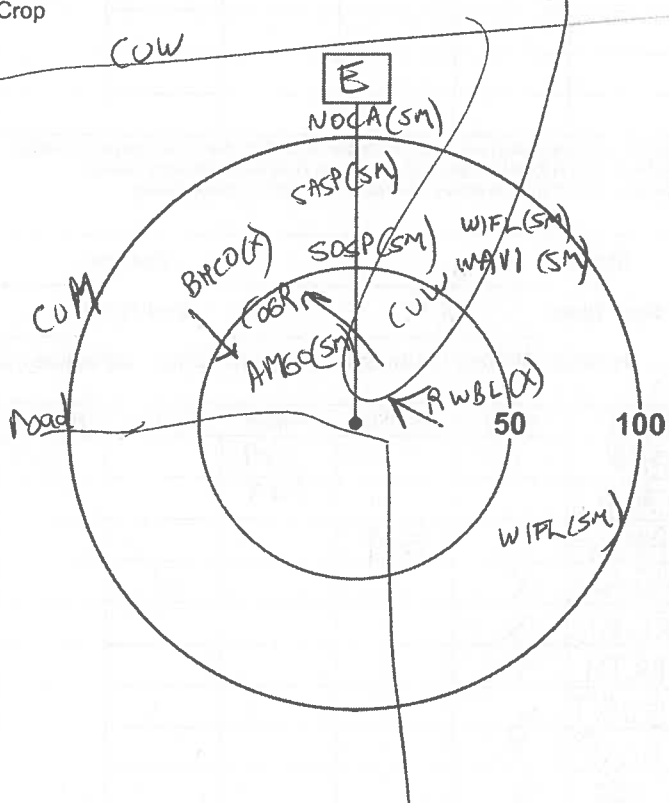
Start Time: 7<sup>50</sup>

End Time: 7<sup>55</sup>

4785737

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
NOCA			SM		
SASP		SM			
SOSP		SM			
BHCO	X			✓	
COBR	X			✓	
AMGO	SM				
WIFL		SM			
WAVI		SM			
RWBL	X			✓	



\* Height of blade sweep varies from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

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

Quality Control: This form is complete  & legible .

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

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

(Field Personnel)

(Project Manager)

REV: 2011-05-04 / FORM 020

Station: 13

Feature: \_\_\_\_\_

UTM: 610049

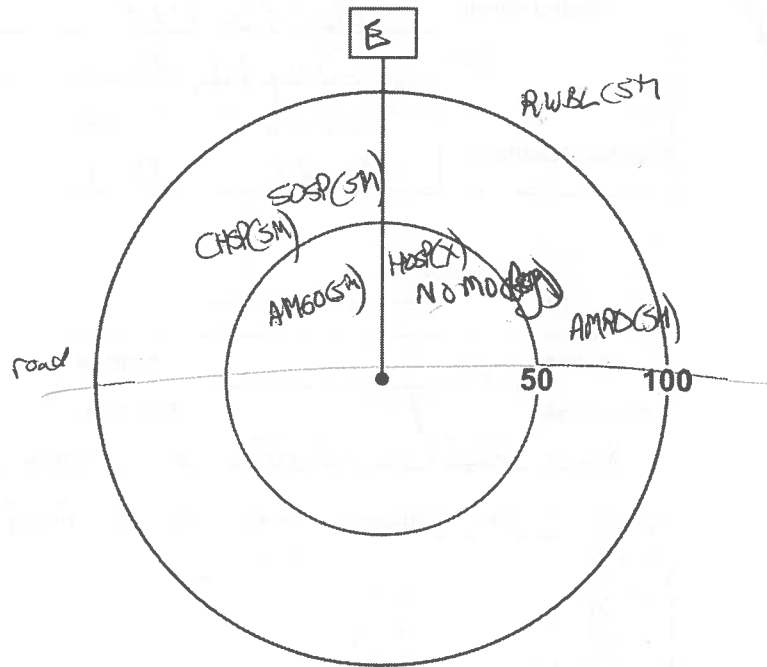
Start Time: 8<sup>00</sup>

End Time: \_\_\_\_\_

4785387

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
RWBL			SM		
SOSP		SM			
CHSP		SM			
AMGO	SM				
HOSP	X				
NOMO	Ag				
AMRO		SM			



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

Station: 14

Feature: \_\_\_\_\_

UTM: 609860

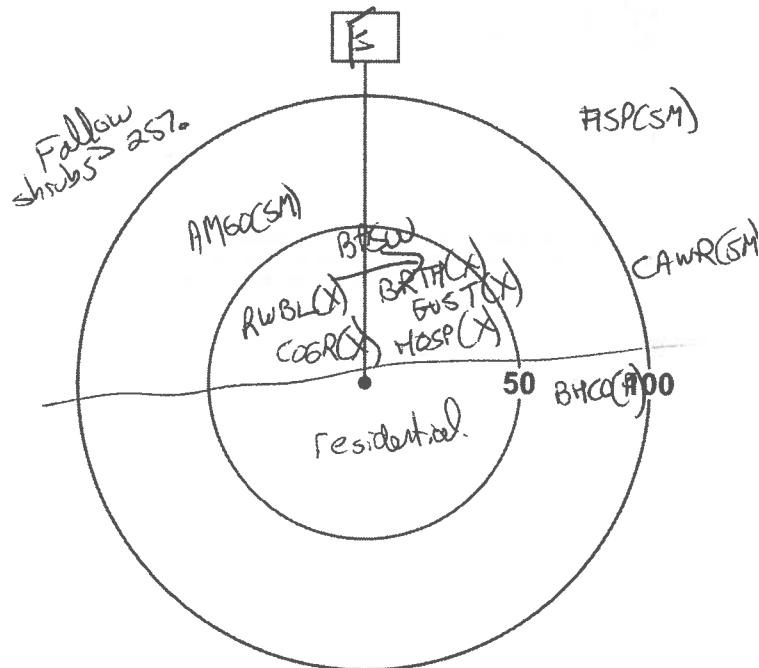
Start Time: 8<sup>15</sup>

End Time: 8<sup>20</sup>

4785605

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
FISP			SM		
CAWR			SM		
AMGO		SM			
BA SW	X			✓	
RWBL	X				
BRTH	X				
EUST	X				
HOSP	X				
COGR	X				
BHCO		P			



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

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

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

(Field Personnel)

Quality Control: This form is complete  & legible .

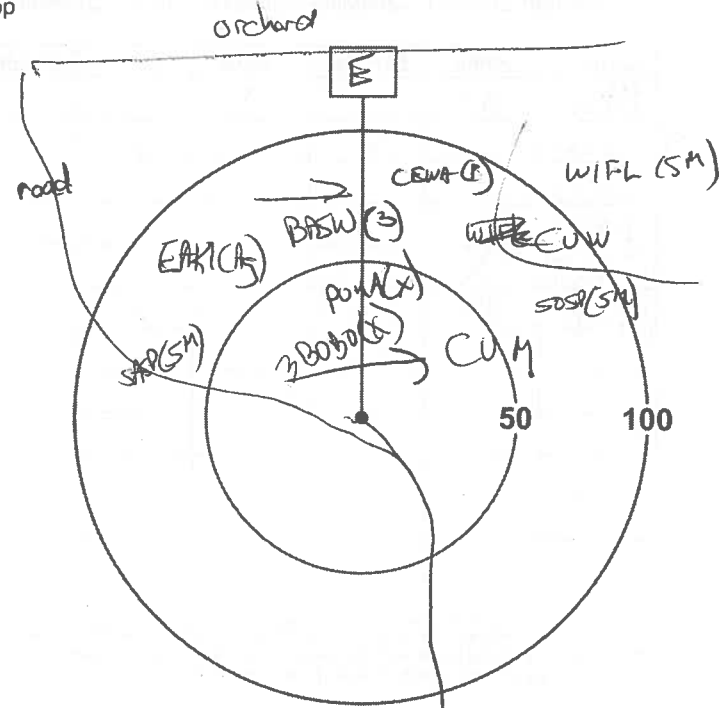
Signature: \_\_\_\_\_

(Project Manager)

REV: 2011-05-04 / FORM 020

Station: 15 Feature: \_\_\_\_\_ UTM: 608784  
 Start Time: 8:35 End Time: 8:40 4785104  
 Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
WIFL			SM		
CEWA		D			
BASW		X		✓	
PUMA	X				
EAK		Ag			
SASP		SM			
BOBO	3X			✓	
SOSP		SM			

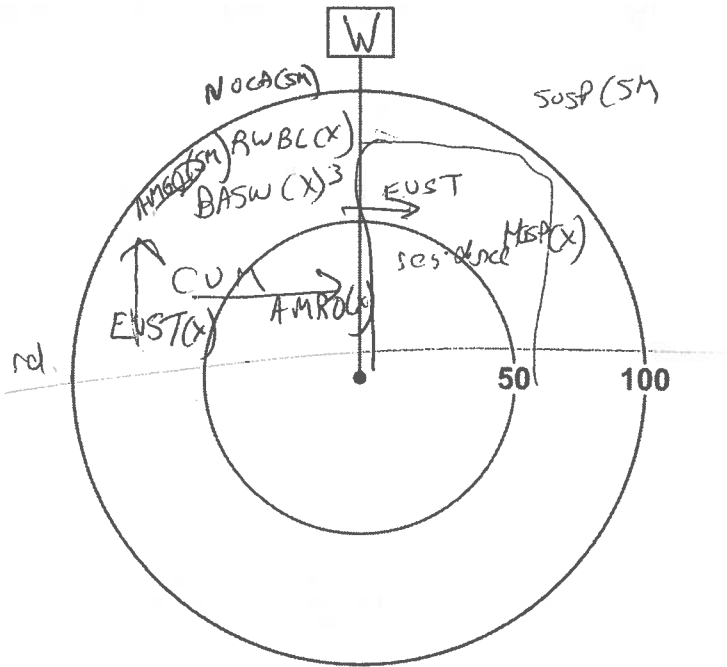


\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

Incidental: BAOR

Station: 15 Feature: \_\_\_\_\_ UTM: 610787  
 Start Time: 9:05 End Time: 9:10 4785550  
 Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
NOCA			SM		
RWBL		X			
BASW		X(C)			
AMGO		SM			
EUST		X			
AMRO	X				
HOSP		X			
SOSP			SM		



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

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

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

Quality Control: This form is complete  & legible .

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



Station: 17

Feature: \_\_\_\_\_

UTM: 611228

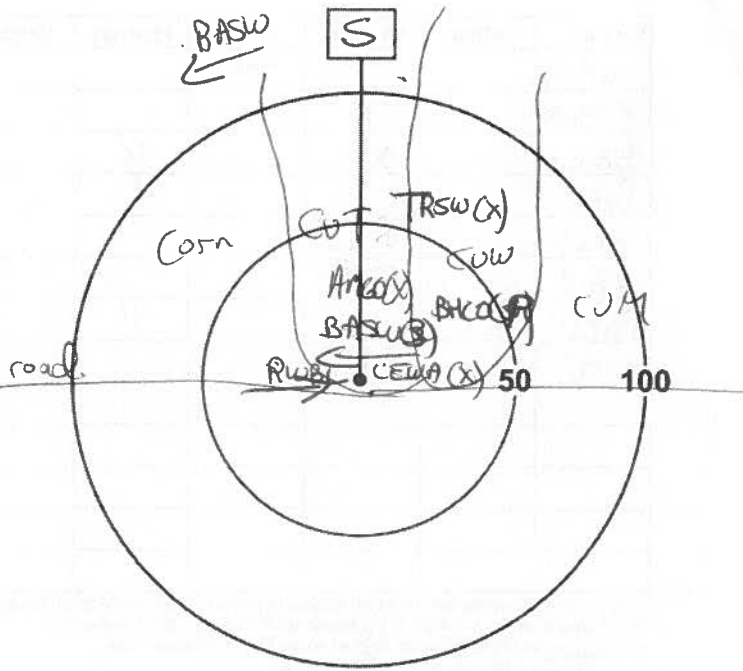
Start Time: 8<sup>50</sup>

End Time: 8<sup>55</sup>

4785587

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

Species	<50m	50-100m	>100m	Flyovers	Height*
BASW	3X		X	✓✓✓✓	
TRSW		X		✓	
BHCO	P				
AMGO	X				
CEWA	X				
RWB	X			✓	



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

Station: \_\_\_\_\_

Feature: \_\_\_\_\_

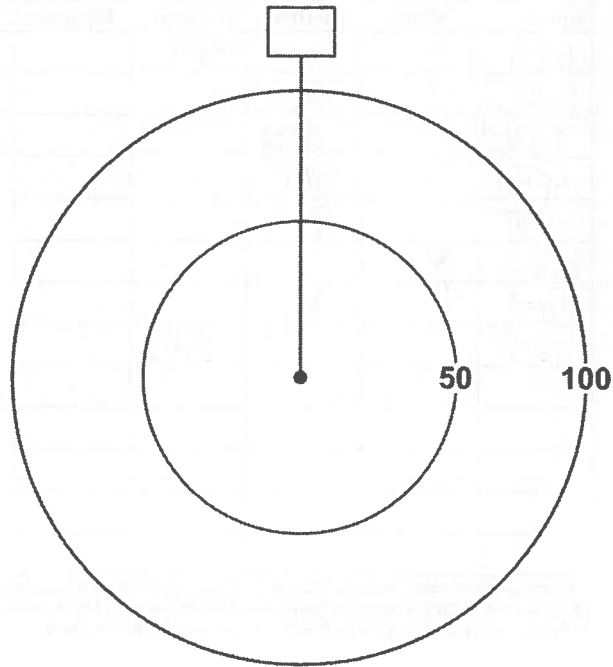
UTM: \_\_\_\_\_

Start Time: \_\_\_\_\_

End Time: \_\_\_\_\_

Habitat: Forest / Swamp / Marsh / Hay / Pasture / Crop

Species	<50m	50-100m	>100m	Flyovers	Height*



\* Height of blade sweep will vary from project to project; check with project manager.  
 O-On ground; A-Below height of blade sweep; B-At height of blade sweep;  
 C-Above height of blade sweep; D-Well above height of blade sweep

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

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

Quality Control: This form is complete  & legible .

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