

**VILLAGE OF DOWNERS GROVE**  
**REPORT FOR THE VILLAGE COUNCIL WORKSHOP**  
**JANUARY 27, 2009 AGENDA**

SUBJECT:	TYPE:	SUBMITTED BY:
Proposal: Gypsy Moth Aerial Spraying	✓ Resolution Ordinance Motion Discussion Only	Nan Newlon Public Works Director

**SYNOPSIS**

A resolution has been prepared to award a contract for 2009 Gypsy Moth Aerial Spraying to Hendrickson Flying Service, Inc. of Rochelle, Illinois in the amount of \$124,740.00

**STRATEGIC PLAN ALIGNMENT**

The 2008-2013 Strategic Plan identifies *A Beautiful Village* in the Downers Grove Vision 2023 statement. Associated objectives include *Tree Canopied Streets* and *Well Maintained Streetscapes, Green Spaces and Landscapes*.

**FISCAL IMPACT**

The approved FY09 General Fund budget provides \$125,000 for this service.

**RECOMMENDATION**

Approval on the February 3, 2009 consent agenda.

**BACKGROUND**

In the early 1980's, isolated populations of gypsy moth were discovered in the Village and controlled with contractual aerial sprays. When gypsy moth re-appeared in the Village two decades later, the Illinois Department of Agriculture (IDA) treated Village sections between 2002 and 2005 as part of the Federal Slow the Spread Program. Now that DuPage County and surrounding areas including Downers Grove have such high numbers of gypsy moth, the focus of the Federal program and associated IDA treatments have moved to the west of the Village. Communities not included in the Federal and IDA program are left to deal with gypsy moth on their own. Unfortunately, gypsy moth is now a wide-spread permanent pest problem and management strategies need to focus on suppression. The most effective action for the Village as a whole is an aerial spraying of the inundated areas.

A Request for Proposals for gypsy moth aerial spraying was issued and published in November 2008 in accordance with the Village's Purchasing Policy. The sole proposal received is from Hendrickson Flying Service, Inc. This is the only vendor who does aerial spraying for gypsy moth in our area.

A map of the treatment area was developed by observing trees with gypsy moth, identifying locations with both large mature public and private oak trees, and reviewing the more than 60 resident calls regarding gypsy moth concerns. A total of 1,400 acres are included in the treatment area. Two aerial sprays towards the end of May are required, generally with the first around May 18 and the second a week later depending on weather and caterpillar development. The spray product will be applied with low flying helicopters. In previous years, aerial sprays were effective at reducing gypsy moth numbers. Staff is expecting similar results from the proposed spray and believes that future year sprayings will be over a smaller area.

The product that will be sprayed is derived from a naturally occurring, soil dwelling bacterium called *Bacillus thuringiensis*, or "BT" for short. There are different BT strains that affect caterpillars, leaf beetles, and mosquito larvae. The BT strain *kurstaki* or BTK, is effective against moth caterpillars. Both damaging caterpillars, such as the gypsy moth, as well as harmless caterpillars of other butterflies and moths that are present at the time of BTK application can be killed. However, in general, BTK and its toxins are destroyed within three to five days by sunlight and other microbes. Caterpillars killed by BTK stop feeding, drop to the ground, and decay harmlessly. The BTK applied in a spray does not multiply or accumulate in the environment.

This contract will be Hendrickson Flying Service, Inc.'s first with Downers Grove. The company has worked with several municipalities including Lake Forest, Lake Bluff, Waukegan, Park Ridge, Addison, and Crystal Lake. They have also contracted with DuPage County Forest Preserve District and the County of McHenry for their programs. Staff is satisfied that Hendrickson Flying Service, Inc. meets the Village's specifications and that their spraying work will be what is required.

#### **ATTACHMENTS**

Resolution

Map Gypsy Moth Aerial Spray Area

Report from the Village Forester

Contract Form

Campaign Disclosure Certificate

**RESOLUTION NO. \_\_\_\_\_**

**A RESOLUTION AUTHORIZING EXECUTION OF AN  
AGREEMENT BETWEEN THE VILLAGE OF DOWNERS GROVE  
AND HENDRICKSON FLYING SERVICE, INC.**

BE IT RESOLVED by the Village Council of the Village of Downers Grove, DuPage County, Illinois,  
as follows:

1. That the form and substance of a certain Agreement (the “Agreement”), between the Village of Downers Grove (the “Village”) and Hendrickson Flying Service, Inc. (“Hendrickson”), for Gypsy Moth aerial spraying, as set forth in the form of the Agreement submitted to this meeting with the recommendation of the Village Manager, is hereby approved.

2. That the Village Manager and Village Clerk are hereby respectively authorized and directed for and on behalf of the Village to execute, attest, seal and deliver the Agreement, substantially in the form approved in the foregoing paragraph of this Resolution, together with such changes as the Manager shall deem necessary.

3. That the proper officials, agents and employees of the Village are hereby authorized and directed to take such further action as they may deem necessary or appropriate to perform all obligations and commitments of the Village in accordance with the provisions of the Agreement.

4. That all resolutions or parts of resolutions in conflict with the provisions of this Resolution are hereby repealed.

5. That this Resolution shall be in full force and effect from and after its passage as provided by law.

\_\_\_\_\_  
Mayor

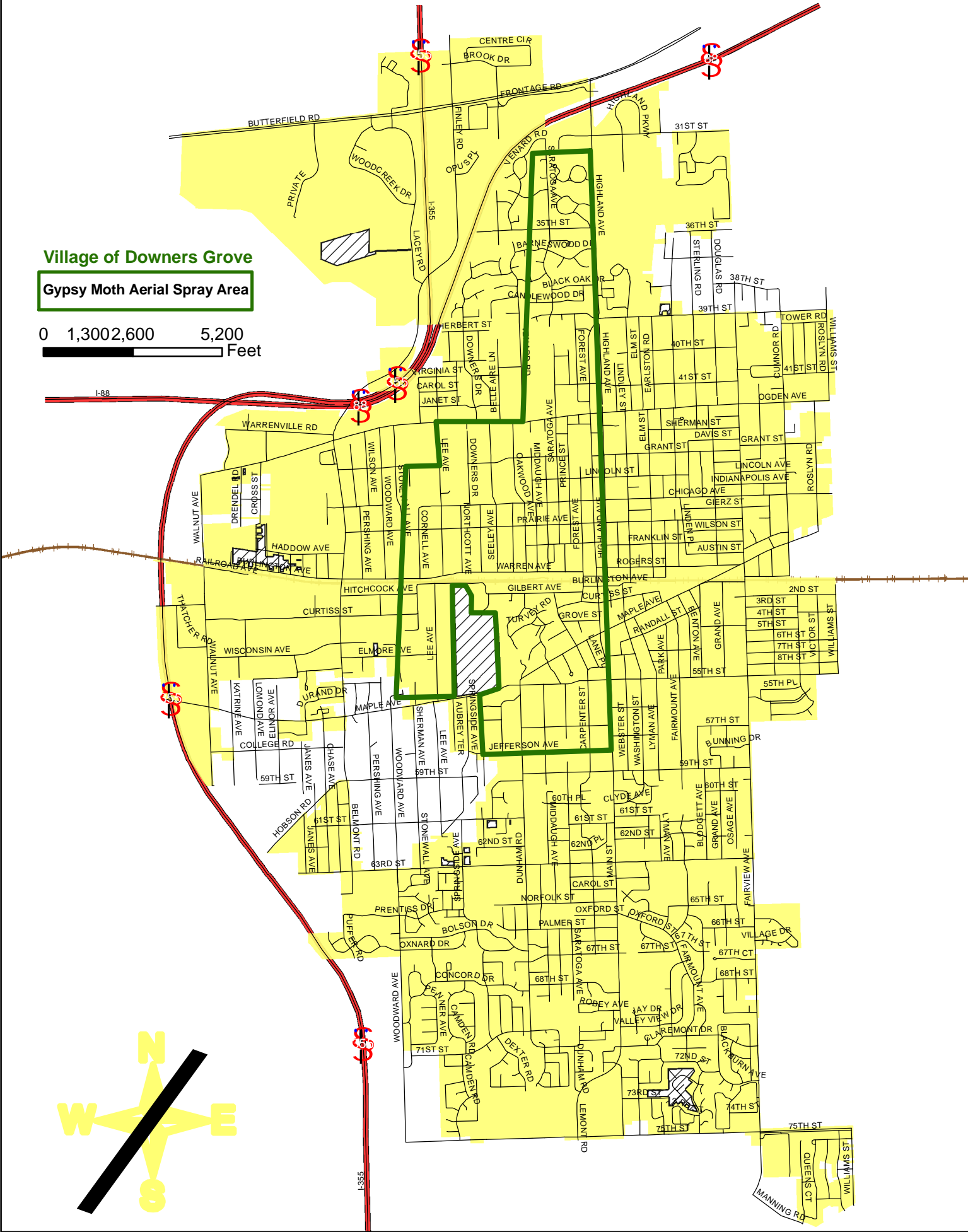
Passed:

Attest: \_\_\_\_\_  
Village Clerk

# Village of Downers Grove

## Gypsy Moth Aerial Spray Area

0 1,300 2,600 5,200 Feet



## **Gypsy Moth Spraying – Report from the Village Forester**

Several questions have been raised regarding the January 27, 2009 Village Council workshop item pertaining to the proposed Gypsy Moth Spraying. The Village Forester has provided responses to these questions below:

### *1) How effective is spraying?*

DuPage County is infested with Gypsy moth, and therefore aerial spraying of BTK is considered a strategy to suppress the population, not eliminate it. BTK is a naturally occurring bacterium that targets Gypsy moth caterpillars. There is only a small window of opportunity to spray in spring of each year, however, as BTK is not as effective when the caterpillars reach full size.

### *2) What is the Forest Preserve District of DuPage County's policy on Gypsy moth? What is its impact on the areas of Downers Grove proposed for spraying?*

The District successfully treated two known infestation areas with BTK, Herrick Lake and Winfield Mounds, the last week of May 2008. The District's Office of Natural Resources is preparing for this season's treatments by keeping track of new and existing infestations. A monitoring and surveillance program is conducted throughout the year to maximize suppression. Maple Grove and Lyman Woods are being monitored by the District but will not be treated in 2009 as the District has prioritized other preserves as being in greater need for treatment with the limited resources available. The threshold for treating forested areas is also higher than residential areas.

The impact of Downers Grove proceeding with treatment and the District not treating Maple Grove or Lyman Woods Forest Preserve this year means that small numbers of the Gypsy moth caterpillars may migrate back within the Village's treatment boundaries. However, Gypsy moth populations migrate slowly, and annual treatment by the Village will halt any further encroachment regardless of the District's treatment schedule.

### *3) How was the area recommended for spraying chosen?*

There are a number of factors that were used to determine the recommended treatment area for 2009. Surveys of egg masses were conducted. Each egg mass can hold up to 1,000 eggs, so reproduction rates are exponential. The proposed treatment area contains a number of egg masses that indicates a high likelihood of gypsy moth causing defoliation in this area.

Staff has also been monitoring the counts of several pheromone traps placed throughout the Village and those with the highest counts are within the treatment area. The traps are baited with a lure, which is a natural pheromone that attracts the male Gypsy moth. This provides a means to determine the potential infestation of an area.

Staff also evaluated the treatment area based on the existing tree population. Oak tree leaves are the preferred food of Gypsy moth caterpillars. Those areas with high concentrations of Oak trees are considered to be the highest risk and were therefore a priority in establishing the treatment area. Resident reports of Gypsy moth were also

considered as a factor and verified through counts of egg masses or other methods mentioned above.

*4) What is the cost effectiveness of spraying?*

The ecological and economic impact of Gypsy moth is a serious concern. Gypsy moth defoliation can change the complexity of understory growth thus resulting in an increase or decrease of certain fauna or flora. Consecutive defoliation can result in plant stress and possible death. Gypsy moth defoliation may predispose trees to attack by opportunistic insects or diseases. In forested neighborhoods, dead trees are a safety hazard. Large numbers of caterpillars are a nuisance and the hairs may cause skin and/or respiratory allergies. In addition, the fecal droppings can cover large areas and make it difficult to enjoy outdoor activities such as barbecues, swimming, and picnics. In fact, reduced attendance in recreational areas may occur during outbreaks.

**IV. PROPOSAL/CONTRACT FORM**

**\*\*\*THIS PROPOSAL, WHEN ACCEPTED AND SIGNED BY AN AUTHORIZED SIGNATORY OF THE VILLAGE OF DOWNERS GROVE, SHALL BECOME A CONTRACT BINDING UPON BOTH PARTIES.**

**Entire Block Must Be Completed When A Submitted Bid Is To Be Considered For Award**

**PROPOSER:**

HENDRICKSON FLYING SERVICE, INC.

Company Name

Date: 1 DEC. 2008

21532 QUITNO ROAD

Street Address of Company

hendricksonflyingervice@gmail.com

Email Address

ROCHELLE, IL 61068

City, State, Zip

RONALD KORTH

Contact Name (Print)

815-384-5151

Business Phone

815-761-3919

24-Hour Telephone

815-384-3101

Fax

Charles W. Hendrickson

Signature of Officer, Partner or Sole Proprietor

CHARLES W. HENDRICKSON, PRESIDENT

Print Name & Title

ATTEST: If a Corporation

Judith Q. Hendrickson  
Signature of Corporation Secretary

**VILLAGE OF DOWNERS GROVE:**

\_\_\_\_\_  
Authorized Signature

\_\_\_\_\_  
Title

\_\_\_\_\_  
Date

ATTEST:

\_\_\_\_\_  
Signature of Village Clerk

\_\_\_\_\_  
Date

In compliance with the specifications, the above-signed offers and agrees, if this Proposal is accepted within 90 calendar days from the date of opening, to furnish any or all of the services upon which prices are quoted, at the price set opposite each item, delivered at the designated point within the time specified above.

**CAMPAIGN DISCLOSURE CERTIFICATE**

Any contractor, proposer, bidder or vendor who responds by submitting a bid or proposal to the Village of Downers Grove shall be required to submit with its bid submission, an executed Campaign Disclosure Certificate, attached hereto.

The Campaign Disclosure Certificate is required pursuant to the Village of Downers Grove Council Policy on Ethical Standards and is applicable to those campaign contributions made to any member of the Village Council.

Said Campaign Disclosure Certificate requires any individual or entity bidding to disclose campaign contributions, as defined in Section 9-1.4 of the Election Code (10 ILCS 5/9-1.4), made to current members of the Village Council within the five (5) year period preceding the date of the bid or proposal release.

By signing the bid documents, contractor/proposer/bidder/vendor agrees to refrain from making any campaign contributions as defined in Section 9-1.4 of the Election Code (10 ILCS 5/9-1.4) to any Village Council member and any challengers seeking to serve as a member of the Downers Grove Village Council.

Under penalty of perjury, I declare:

Bidder/vendor has not contributed to any elected Village position within the last five (5) years.

  
Signature

RONALD KORTH  
Print Name

Bidder/vendor has contributed a campaign contribution to a current member of the Village Council within the last five (5) years.

Print the following information:

Name of Contributor: \_\_\_\_\_  
(company or individual)

To whom contribution was made: \_\_\_\_\_

Year contribution made: \_\_\_\_\_ Amount: \$ \_\_\_\_\_

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Print Name