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CITY of NOVI CITY COUNCIL

Agenda Item E May 14, 2007

SUBJECT: Approval of Resolution seeking reimbursement of expenses associated with Mosquito Control from Oakland County in the amount of \$ 18,282.

SUBMITTING DEPARTMENT: Public Works

CITY MANAGER APPROVAL:

EXPENDITURE REQUIRED	
AMOUNT BUDGETED	\$41,000
APPROPRIATION REQUIRED	
LINE ITEM NUMBER	210-000.00-872.000

BACKGROUND INFORMATION:

DPW staff continues to work with Oakland County officials to identify mosquito habitats in addressing the West Nile Virus. By participating in the County's program, we have been effectively treating catch basins and standing water locations with larvacide briquettes. The briquettes are effective for 150 days and are distributed twice a year (in early spring -March 28-29, 2007, and in late summer - August 2007).

The Oakland County Board of Commissioners has approved this year's reimbursement for West Nile Virus expenses incurred by cities, towns and villages (CVT). Each CVT will receive funds according to a formula established by the County (75% for population and 25% for total square miles). Last year Novi was reimbursed \$18,282.

We will re-order larvacide in January/February, 2008. We typically budget \$41,000 in the event that we do not receive Oakland County reimbursement.

In March 2007, staff attended the County's 2007 Division Mosquito Swat Team Program which emphasized the importance of public education, early source reduction and strong personal protection measures. The City promotes West Nile awareness through Channel 13, the City's website, and homeowner association newsletters.

RECOMMENDED ACTION: Approval of Resolution seeking reimbursement of expenses associated with Mosquito Control from Oakland County in the amount of \$18,282.

	1	2	Y	N
Mayor Landry				
Mayor Pro Tem Capello				
Council Member Gatt				
Council Member Margolis				

	1	2	Y	N
Council Member Mutch				
Council Member Nagy				
Council Member Paul				



RESOLUTION

Authorizing West Nile Virus Fund Expense Reimbursement Request

City of Novi Oakland County, Michigan

WHEREAS, the Oakland County Board of Commissioners has established a West Nile Virus Fund Program to assist Oakland County cities, villages, and townships in addressing mosquito control and activities, and,

WHEREAS, Oakland County's West Nile Virus Fund Program authorizes Oakland County cities, villages, and townships to apply for reimbursement of expenses incurred in connection with mosquito protection measures/activity, mosquito habitat eradication, mosquito larviciding or focused adult mosquito insecticide spraying in designated community; and,

WHEREAS, the City of Novi, Oakland County, Michigan will be incurring expenses in connection with mosquito control activities believed to be eligible for reimbursement under Oakland County's West Nile Virus Fund Program,

NOW, THEREFORE, BE IT RESOLVED, that this City Council authorizes Director of Public Works, William McCusker, as agent for the City of Novi, to request reimbursement for eligible mosquito control activity under Oakland County's West Nile Virus Fund Program.

CERTIFICATION

I hereby certify that the forgoing is a true and complete copy of a Resolution adopted by the City Council of the City of Novi at a regular meeting held this day, May 14, 2007.

Maryanne Cornelius, City Clerk

ATTACHMENT A

CITY OF NOVI PROJECT DESCRIPTION

The Drain Division has been working in conjunction with Oakland County to identify mosquito breeding sites and standing water locations. By participating in the County's larvacide briquette program, we have been effectively treating existing and potential mosquito breeding grounds.

The City's Mosquito Control Program is a proactive approach to reduce mosquito breeding grounds. In addition to distributing the briquettes, we continue to promote public education and awareness by including West Nile Virus information and updates in the City newsletter, on the local cable channel, on the City website, and at community events.

OAKLAND COUNTY HEALTH DIVISION

**MOSQUITO
SWAT TEAM**

2007

CVT Reimbursement
Training



OAKLAND COUNTY HEALTH DIVISION



2007 Mosquito Swat Team Action Plan

In 2006, Oakland County experienced an extremely mild incidence of illness caused by West Nile Virus (WNV) with four confirmed cases and zero deaths reported by the Michigan Department of Community Health. The number of WNV related deaths reported statewide increased from four in 2005 to seven in 2006, while the number of cases reported decreased from sixty-two in 2005 to fifty-five in 2006.

As in previous years, Oakland County Health Division's (OCHD) goal for 2007 is to prevent mosquito-borne disease through:

- public education
- early source reduction
- strong personal protection measures

OCHD will continue to devote resources countywide to prevent mosquito breeding and enhance existing disease surveillance. In addition, information on larvaciding and focused spraying is available to local municipalities to assist them in determining the best approach for their jurisdiction.

The following *Mosquito Swat Team Action Plan for 2007* represents OCHD's commitment to protect the health of Oakland County citizens and is contingent on the State of Michigan's ability to fulfill their planned testing components.

Public Health and Community Outreach

To increase public awareness of mosquito-borne illnesses OCHD will provide public health messages through media campaigns, advertising and educational presentations. Public education regarding modes of transmission and means of preventing or reducing risk of exposure is a key component of OCHD's prevention and control program. If surveillance data indicates an increased human disease risk that may require application of focused spraying, accurate and timely information of mosquito control activities will be provided to local municipalities.

Post Surveillance

OCHD will continue to monitor dead bird reports. The public is asked to report dead birds, by species when possible, through the OCHD Information Line (877-377-3641).

The *Culex pipien* and *Culex restuan*, along with other suspected mosquito species are involved in the transmission of WNV. These mosquitoes are abundant in urban areas.

The adult female culex mosquito prefers to lay her eggs in water with high organic content, such as sewer drains, catch basins, settling lagoons and similar settings. Identifying mosquito species during collection will be important for purposes of surveillance and monitoring.

OCHD intends to participate in limited mosquito trapping activities, in yet to be determined locations in Oakland County during 2007. Local municipalities are encouraged to perform trapping activities as indicated by surveillance data. Municipalities are also encouraged to share surveillance data with OCHD as it becomes available.

Human Surveillance and Provider Education

Hospital infection control practitioners, infectious disease physicians and other appropriate health care providers in Oakland County have been contacted regarding reporting of viral meningitis or encephalitis. These groups have received information on WNV which includes recommendations for specimens (CSF, serum and tissue) to be submitted to the Michigan Department of Community Health (MDCH), Bureau of Laboratories. A system for detecting mosquito-borne diseases among humans will include monitoring for cases of viral encephalitis and aseptic meningitis in hospitals and laboratories. This information will be reported directly from the hospitals to OCHD and then to MDCH. MDCH laboratories will test serum and cerebral spinal fluid samples submitted by health care providers for WNV and other mosquito-borne viruses as indicated. These health care providers will play an important role in the early detection, prevention and clinical management of mosquito-borne diseases. OCHD will encourage rapid reporting of cases of encephalitis and other communicable diseases as required by law.

Larval Mosquito Control

OCHD recommends reduction of mosquito breeding through the elimination of standing water and application of larvacide to sites that cannot be emptied or drained. Residents are urged to reduce breeding sites around homes and commercial properties and report potential mosquito breeding sites to their local municipality. OCHD will continue to collaborate with elected officials, municipal agencies and large property owners to eliminate standing water in empty lots, tire piles and other containers.

Adult Mosquito Control

If surveillance suggests the level of WNV activity poses a significant threat to human health, focused spraying of large green spaces will be suggested to local municipalities. Habitat, weather, time of year and proximity to human population will be considered in determining the necessity for focused spraying. All municipalities will be encouraged to review the accuracy, quality and efficacy of the adulticide application to ensure compliance with federal and state guidelines.

Mosquito Swat Team Timeline

Pre-Season Message (March - May)

- Target mosquito-breeding sites. Clean up standing water.
- Mosquitoes can breed in unlikely locations.
- Reducing mosquito-breeding sites will help lower the risk of being bitten by mosquitoes.
- Persons over 50 years of age and those with immune problems or other chronic illness are at highest risk for serious illness.
- Larvacide mosquito-breeding sites (i.e. ponds, ornamental pools, catch basins and marshy areas) to reduce adult mosquito populations.

Early Season Message (June - July)

- The potential for human cases is increasing.
- Continue to target mosquito-breeding sites.
- When outdoors use insect repellents containing DEET, Picaridin or other products that include ingredients approved by the U.S. Environmental Protection Agency (EPA) following manufacture instructions.
- Follow the Centers for Disease Control and Prevention (CDC) recommendations for using insect repellent, on infants and young children.

Prime Season Message (August - September)

- Adult mosquitoes are at their peak.
- Larvacide breeding sites to reduce mosquito populations.
- Unless there is evidence of mosquito-borne disease, there is no need to avoid outdoor activities.
- Continue to use insect repellents containing DEET, Picaridin or other products that include ingredients approved by the U.S. (EPA).
- Focused spraying of large green spaces may be recommended at this time to reduce adult mosquito populations.
- If focused spraying becomes necessary, know the facts about spraying locations and schedules, chemical facts and known health effects.

Mosquito Swat Team Resource List

Websites

Centers for Disease Control and Prevention
www.cdc.gov/ncidod/dvbid/westnile/index.htm

Oakland County Health Division – WNV Educational Materials
www.oakgov.com/health/info_pub/wnv_mainpage.html

Michigan Department of Community Health (MDCH)
www.michigan.gov/westnilevirus

MDCH Health Promotions Clearinghouse - West Nile Virus brochure (Limit 100)
www.hpclearinghouse.org/preframestart.html

Skeeter Websites for Kids

Education Planet
www.educationplanet.com Search term: mosquitoes

Enchanted Learning
www.enchantedlearning.com/subject/insects/mosquito/Mosquito.html

Hey! A mosquito bit me.
www.kidshealth.org/kid/ill_injure/bugs/mosquito.html

Koday's Amazing Insects
www.ivyhall.district96.k12.il.us/4th/kkhp/1insects/mosquito.html

Los Angeles County Vector Control District
www.lawestvector.org

Minnesota Pollution Control Agency – Mosquito, Creature of the Month
www.pca.state.mn.us/kids/c-july98.html

Neoto Mosquito
www.cdc.gov/ncidod/dvbid/arbor/neato.htm

Saginaw County Mosquito Abatement Commission
www.scmac.org/Education.htm



The Oakland County Health Division will not deny participation in its programs based on race, sex, religion, national origin, age or disability. State and Federal eligibility requirements apply for certain programs.