

BILL NO. 2278

ORDINANCE NO. 2098

AN ORDINANCE AUTHORIZING THE CITY OF CHESTERFIELD TO ENTER INTO AND EXECUTE A CONTRACT WITH ST. LOUIS COUNTY, MISSOURI FOR MOSQUITO CONTROL SERVICES AND AUTHORIZING AND DIRECTING THE CITY ADMINISTRATOR OF THE CITY OF CHESTERFIELD TO ENTER INTO ON BEHALF OF SAID CITY A CONTRACT WITH ST. LOUIS COUNTY, MISSOURI FOR MOSQUITO CONTROL

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF CHESTERFIELD, ST. LOUIS COUNTY, MISSOURI, AS FOLLOWS:

Section 1. The City Administrator of the City of Chesterfield is hereby authorized and directed to enter into and execute a contract with St. Louis County, Missouri, a copy of which is marked Exhibit "A", whereby said County, by and through its Department of Community Health and Medical Care will perform mosquito control services within said City.

Section 2. The City shall compensate St. Louis County, Missouri for hand-spraying (larviciding) and/or power spraying (fogging), the hourly rate set forth in the contract and as such rate is changed in accordance with the terms and conditions of the contract between the City and County.

Section 3. After execution thereof; this agreement shall be in effect for one (1) year with four (4) automatically renewable one (1) year periods (maximum five years). Either party may terminate the contract by written notice, at least thirty (30) days prior thereto.

Section 4. This ordinance shall be in full force and effect from and after its passage and approval.

Passed and approved this 7th day of JUNE, 2004.



Mayor

ATTEST:

Judith A. Higgins
Deputy City Clerk

EXHIBIT "A"

LOCAL GOVERNMENT CONTRACT WITH ST. LOUIS COUNTY, MISSOURI FOR MOSQUITO CONTROL SERVICES

This contract is made and entered into this 7TH day of JUNE, 2004, by and between the City of Chesterfield a Municipal Corporation, (hereinafter referred to as "Municipality") and St. Louis County, Missouri, (hereinafter referred to as "County").

Witnesseth:

Whereas, Municipality has enacted its Ordinance No. 2098 authorizing said Municipality to enter into this contract with County for mosquito control services to be performed within said Municipality through County's Department of Health; and

Whereas, County is authorized by Article II, Section 2.180 (20) of County's Charter to cooperate and contract with other political subdivisions for common services; and

Whereas, Section 604.040 SLCRO 1974, as amended, authorizes the County Executive to contract on behalf of the Department of Health with political subdivisions for public health services; and

Whereas, in conformity with Section 604.040 SLCRO 1974, as amended, the St. Louis County Council has adopted Resolution No. 3670, 1992 that sets forth the terms and conditions upon which mosquito control services are to be provided to Municipality; and

Now therefore, in consideration of the mutual promises and undertakings herein set forth, County and Municipality agree as follows:

- | | | | |
|----|--|-------------------------------------|--------------------------|
| 1. | County shall provide mosquito control services as indicated: | Yes | No |
| | a. Adulciding per County guidelines - to include all necessary materials, equipment, and personnel upon request and as needed. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | b. Larviciding per County guidelines - to include all necessary materials, equipment, and personnel upon request and as needed. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | c. Calibration by County of Municipality's Ultra Low Volume Cold Aerosol Generators (ULV's), within federal standards. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. | Municipality shall: | | |
| | a. Pay County for Adulciding at the hourly rate of sixty-four dollars (\$64.00), and for Larviciding, at the hourly rate of thirty-five dollars (\$35.00). | | |

b. Pay County twenty-five dollars (\$25.00) for each ULV calibration within thirty (30) days of each such calibration.

c. Make all payments by check payable to the order of the "St. Louis County Department of Health". Billing will occur in November. Payments under above paragraph "a" of this section must be received by County before the 31st day of December, for the initial contract term and before the same day and month in succeeding periods of renewal. Remit payment to St. Louis County Department of Health, 111 S. Meramec Ave., LL-Fiscal Services, Clayton, MO 63105.

3. The initial contract term shall be for one year with automatically renewable one year periods, for a maximum of five (5) years, subject to changes in prices and services provided therein by County, as agreed to by Municipality. This contract term is for a total of 5 years, which includes initial one-year term and annual renewals. Either party may terminate this contract upon thirty days written notice.

ST. LOUIS COUNTY, MISSOURI

ATTEST:

By: _____
County Executive

Administrative Director

APPROVED:

APPROVED AS TO LEGAL FORM:

Director, Department of Health

County Counselor

APPROVED:

Accounting Officer

MUNICIPALITY

City Of Chesterfield

By:  _____

ATTEST:



City/Village Clerk

Michael G. Herring, City Administrator

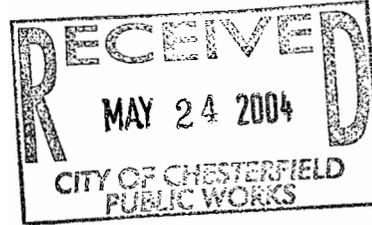
Charlie A. Dooley
County Executive

Saint Louis
COUNTY
HEALTH

Jacquelynn A. Meeks, DrPH
Director of Health

May 17, 2004

Mr Marty DeMay, City Clerk
City of Chesterfield
690 Chesterfield Parkway West
Chesterfield, MO. 63017



Dear Mr DeMay:

According to our records, your contract for St. Louis County to provide mosquito control services has or will be expiring. I invite you to renew the contract and have enclosed the necessary forms. The fees for the 2004 season remain unchanged. They are \$35.00 per hour for larviciding and \$64.00 per hour for adulticiding (ULV).

Our service includes the treatment of mosquito breeding sites (larviciding) on public land and easements and adult mosquito control (adulticiding/ULV). We monitor and treat the breeding sites on a regular basis. We make the decision to adulticide based upon mosquito surveillance and testing results and other factors. Mosquito control is particularly important since West Nile Virus (WNV) is established throughout the Saint Louis area. West Nile Virus is carried by mosquitoes and can cause encephalitis in humans, birds, horses, and other mammals.

We are asking you to:

- 1) Complete, sign, and return both copies of the enclosed contract.
- 2) Enclose a copy of your enabling legislation that authorizes the contract (see enclosed model ordinance).
- 3) Provide our office with an up-to-date map of your community

Vector Control is committed to providing the best service possible. Your timely response is appreciated. Should you have any questions, please feel free to give me a call at (314) 727-3097.

Sincerely,

Joan Bradford, Supervisor
Vector Control Services

JB: blr

Enclosures: Two (2) Original Contracts
One (1) Sample Ordinance

DIVISION OF ENVIRONMENTAL PROTECTION - VECTOR CONTROL

77 Hunter Avenue • Saint Louis, MO 63124 • PH 314/727-3097 • FAX 314/727-9201

TTY 314/615-8428 or 800/735-2966 • web <http://www.stlouisco.com>

An Equal Opportunity Employer - Services Provided on a Non-Discriminatory Basis

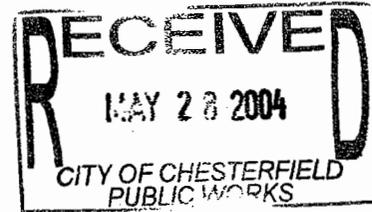
Charlie A. Dooley
County Executive

Saint Louis
COUNTY
HEALTH

Jacquelynn A. Meeks, DrPH
Director of Health

May 21, 2004

Mr. Michael Geisel, Public Works Director
City of Chesterfield
16052 Swingley Ridge Road
Chesterfield, Missouri 63017



Dear Mr. Geisel:

Our commitment to protecting the public health continues to be as strong as ever. As such we would like to make you aware of the Vector Control Program as we enter the mosquito season. Please pass this information on to others within your municipal government.

Larviciding: We have been very busy since mid March treating mosquito breeding sites throughout the County. We continue to expand our larviciding efforts by searching out new breeding sites. As in the past, we only monitor and treat on public property and public easements---ditches, drainage areas, creek systems and sewer catch basins. We continue to advise individuals how they can resolve problem-breeding sites on their property. Retail stores and Internet sources sell biolarvicides (biological control products) to individuals so they can treat their own property.

Mosquito Disease Monitoring: Our adult mosquito trapping begins in May. Captured mosquitoes are tested for West Nile Virus (WNV). Different types of traps will be set in different habitats to collect various mosquito species. We are targeting the *Culex* mosquito, which is the main vector for WNV in the St. Louis area. We are collecting other species to determine if they are also disease vectors. These trap results will be used to assist in our spraying decisions.

Adulticiding: The dynamics of mosquito control have changed with the arrival of WNV. Following national recommended protocol, we continue to base spraying decisions on several factors: mosquito trap results including species, quantity collected and WNV test results; animal and human WNV positive cases, complaints, and presence of other preventive factors for the area. In the past, spraying was driven by nuisance complaints only. Complaints alone will not necessarily trigger spraying since the level of tolerance for mosquitoes varies dramatically from one individual to another. We will target our treatment where WNV occurs since disease control and prevention is our public health priority.

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May 21, 2004
Page 2

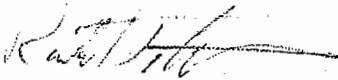
The Vector Control office will notify municipalities by late afternoon if spraying will be done within the next 18 hours (starting at dusk that evening). If we are not able to complete the spray route that night, we may spray the next morning (4:00 a.m. to sunrise). Factors beyond our control may postpone spraying until the next week. These include weather conditions (rain, high winds, temperatures below 60°F). Spray notification may be via fax. We'll have a dedicated phone line, 615-4284, where we will record a daily message stating where we will spray that night.

Attached is the spray schedule—which shows the day of the week that spraying will occur if the trigger factors lead to that decision.

The biggest source of disease carrying mosquitoes is standing water in residential yards. People just don't realize their role in this issue. Therefore, you as our advocate and partner play a critical role in this success. Getting this message out to your residents is key to preventing mosquito populations. People need to remove standing water or use products that are safe and effective to treat birdbaths, standing water in swimming pool covers, etc. for mosquitoes.

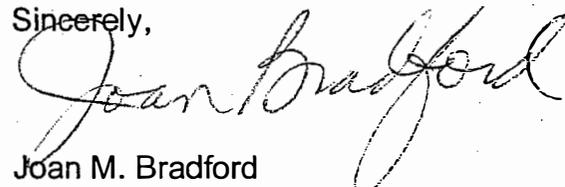
Please review the enclosed materials. You may distribute the informational sheets to your residents. Our commitment to public health is on going and we appreciate your assistance to our program.

Sincerely,



Ron Twillman
Animal and Vector Control Program Manager

Sincerely,



Joan M. Bradford
Vector Control Supervisor

JB:

Attachments

Spray schedule
2004 Municipal Questionnaire
Newsletter article
Mosquito Control Services and Products Used

Saint Louis County, Missouri 2004 Spray Night Schedule

This schedule shows what day we will spray if the spraying criteria have been met. Spraying may be completed on the evening indicated until dawn the following morning. Please remember – all treatment is WEATHER DEPENDENT!

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY
Bella Villa	Bellefontaine Neighbors	Bel-Nor	Chesterfield	Clayton
Crestwood	Black Jack	Bel-Ridge	Clarkson Valley	Crystal Lake Park
Grantwood Village	Calverton Park	Charlack	Ellisville	Des Peres
Green Park	Country Club Hills	Cool Valley	Eureka	Frontenac
Lakeshire	Dellwood	Country Life Acres	Manchester	Huntleigh
Mackenzie	Flordell Hills	Creve Coeur	Twin Oaks	Kirkwood
Marlborough	Jennings	Greendale	Wildwood	Ladue
St. George	Moline Acres	Hanley Hills	Winchester	Maplewood
Shrewsbury	Riverview	Normandy		Oakland
Sunset Hills		Northwoods		Richmond Heights
Wilbur Park		Norwood Court		Rock Hill
		Olivette		Warson Woods
		Pagedale		Webster Groves
		Pasadena Hills		Westwood
		Pasadena Park		
		Pine Lawn		
		St. John		
		Sycamore Hills		
		Town & Country		
		University City		
		Uplands Park		
		Velda City		
		Velda Village Hills		
		Vinita Park		
		Vinita Terrace		
UNINCORPORATED AREAS				
South Unincorporated	North Unincorporated	Creve Coeur	Castlewood	JB Park
Affton	Castle point	West Overland	Fenton	
Concord Village	Crown point		Sherman	
Lemay	Florissant			
Mehlville	Ft Bellefontaine			
Oakville	Glasgow Village			
	Hathaway			
	Seven Hills			
	Spanish Lake			

Charlie A. Dooley
County Executive

Saint Louis
COUNTY
HEALTH

FAXED 5/28/04 2:15 PM MDR
Jacquelynn A. Meeks, DrPH
Director of Health

2004 Municipal Mosquito Control Questionnaire

Mosquito control services provided under contract by
Saint Louis County Health Department-Vector Control

May 21, 2004

TO: Mr Michael Geisel, Public Works Director
City of Chesterfield
16052 Swingley Ridge Road
Chesterfield, Missouri 63017

FROM: Joan Bradford, Supervisor
Return survey by fax or mail within one week of receipt.

Send to: Saint Louis County Health-Vector Control
77 Hunter Avenue
Ladue, MO. 63124

Fax: (314) 727-9201

Contact: Mike GEISEL Title: Director of Public Works/City Engineer
Phone: (636) 537-4769 ext. Fax: (636) 537-4798
Email: mgeisel@chesterfield.mo.us

Check all appropriate boxes

•**Adulticiding** – Mosquito spraying is not automatic. Vector Control will determine the need for adulticiding based on - mosquito trap results, WNV positive mosquitoes, birds, and horses, and human WNV cases. Spraying will occur from May through October, as needed. Spraying will occur during evening hours or early the next morning (before sunrise). Spraying is weather dependent – rain, high winds, low temperatures cancel that day's spraying. The billing rate is \$64.00 per hour.

Which is preferred?

1. **City/Village will contact Vector Control**
to report mosquito problems.
2. **Residents can contact Vector Control**
to report mosquito problems.

•**Larviciding** – Monitoring and treating mosquito breeding sites in on-going. Each site is checked up to three (3) times a month. We monitor and treat sites on public lands, easements, right-of-ways, etc. **We do not treat on private property.** The billing rate is \$35.00 per hour.

Which is preferred?

1. **City/Village will contact Vector Control**
to report possible mosquito breeding sites.
2. **Residents can contact Vector Control**
to report possible mosquito breeding sites.

DIVISION OF ENVIRONMENTAL PROTECTION - VECTOR CONTROL

**MOSQUITO CONTROL and WEST NILE VIRUS
WHAT YOU CAN DO
Citizens Urged to Fight Mosquitoes**

Are you raising mosquitoes on your property? Probably. Saint Louis County Health Department's Vector Control is doing its part to control mosquitoes in public areas. Are you doing your part? Learn how you can be part of the solution to reduce mosquitoes in your neighborhood.

Mosquitoes are a nuisance, but more importantly some can transmit disease. Mosquito control has been an important public health issue in Saint Louis County for many years. However, with the arrival of West Nile Virus (WNV), we need to target the areas with the greatest potential for disease with a renewed vigor.

Since prevention is very important in mosquito control, treatment of mosquito breeding sites is a high priority. The Saint Louis County Vector Control Program addresses mosquito problems in public areas such as ditches, retention ponds, storm sewers and segmented creeks. We do not treat private property. Since mosquitoes can breed anywhere that water collects, residents and businesses need to take some preventative steps to reduce mosquito populations on their own property.

Vector Control starts pre-treatment of over 6000 mosquito breeding sites in early spring and continues throughout the mosquito season. In spite of these preventative measures, there will still be some adult mosquitoes. Vector Control's decision to spray for adult mosquitoes is based primarily upon our surveillance program. We set mosquito traps nightly to determine mosquito species and quantity present. The mosquitoes are then tested to determine the presence of mosquito borne diseases, including WNV. Vector Control welcomes citizen input regarding areas of high mosquito infestation to aid in our determination of where to treat.

Actions you can take:

Landscaping:

- Make sure drainpipes from gutters and sump pumps are properly sloped so they don't hold water. The commonly used black flexible drainage pipe is a problem if not installed correctly.
- Never dump grass clippings or leaves into creeks or other drainage areas; they create high organic content breeding sites where mosquitoes thrive. Leave clippings on your lawn and compost leaves or properly dispose of this material.
- Mosquitoes rest in vegetation and other protected areas; keep bushes trimmed and grass cut
- Fill in any low places where water can stand a week or so
- Keep fish in your fishpond as they will eat mosquito larvae

Home Maintenance:

- Check and clean out clogged rain gutters and downspouts so they won't hold water
- Store inside, or get rid of, artificial containers such as flowerpots, cans, tires, etc.
- Empty, clean and refill birdbaths on a weekly basis
- Empty and clean small wading pools at least once a week
- If you have a pool, make sure the cover isn't holding water and breeding mosquitoes
- Store wheelbarrows upside down; cover or store canoes and boats upside down

Personal Protection:

- Wear light colored clothing (white is best) and a white hat, as mosquitoes are attracted to dark colors. Wear long sleeves and long pants to minimize exposed skin
- Check out mosquito repellent products and follow label instructions
- A fan creates a breeze preventing mosquitoes from landing!

Homeowners can purchase biological mosquito control products at garden centers, hardware and home supply stores and on the Internet. *Bacillus thuringiensis israelensis* (Bti) is one active ingredient available. This bacteria destroys the intestinal lining of the mosquito larvae. Another common active ingredient is methoprene, a growth-inhibiting hormone that prevents the larvae from developing into adults. These are safe for use in fishponds, birdbaths, etc. They are the same products used by Saint Louis County. Barrier sprays are available to treat areas where adult mosquitoes rest. Always follow label directions.

MOSQUITO CONTROL SERVICES IN ST. LOUIS COUNTY

Vector Control Services and Products Used

Overview: Mosquito control in St. Louis County is based upon the principles of integrated pest management (IPM), using environmentally friendly approaches. St. Louis County provides mosquito control services for unincorporated areas and contractual services for most of the 91 municipalities. The County has over 500 square miles. Over three (3) dozen mosquito species live in a wide range of habitats including sewer catch basins, backyard containers, floodplains --- anywhere there is standing water. The *Culex spp* mosquito is the vector for West Nile Virus in our area.

Vector Control has four (4) Vector Control Specialists, a supervisor, a secretary and hires 13 summer on-call Vector Control Assistants. Effort is concentrated on pretreatment—larva control. Larviciding routes for mosquito breeding sites are updated yearly and are monitored on an on-going basis throughout the season. Until 2002, adult mosquito control was in response to nuisance complaints. However, with the arrival of West Nile Virus (WNV), we also target areas with the greatest potential for WNV outbreak. Operations include an extensive mosquito surveillance program. When positive WNV mosquitoes, birds, horses and human cases occur, we concentrate our treatment in those areas.

This fact sheet lists the various chemicals used by St. Louis County in controlling mosquitoes. Most of these products are also available at retail outlets for purchase by businesses and homeowners. The trade name may be different. Look for the active ingredient and follow label directions.

Following are chemicals used by St. Louis County; all are labeled by EPA for mosquito control.

Larviciding:

Trade name: VECTOBAC G (granules), AQUABAC XT(liquid)

Active ingredient: *Bacillus thuringiensis israelensis* * (Bti), a bacteria

Biological control that causes larvae intestines to rupture when ingested.

Trade name: VECTOLEX (granules)

Active ingredient: *Bacillus sphaericus* (Bs), a bacteria

Biological control that causes larvae intestines to rupture when ingested. Used in polluted water; will replicate.

Trade name: AGNIQUE MMF*: Thin surface film that prevents air intake by larvae and pupae.

Trade name: ALTOSID

Active ingredient: methoprene*--a sustained release growth-inhibiting hormone that prevents adult emergence. 30 day briquets* and 150 day XR briquets; 30 day pellets*; 21 day granules;

Adulticiding: Chemicals used--

Trade name: AQUA-RESLIN

Active ingredient: Permethrin* (combined with Piperonyl Butoxide, which improves Permethrin effectiveness)

Synthetic pyrethroid that is mixed with water, used in ULV (ultra low volume) sprayer. Dispenses a fine mist that kills adult mosquitoes on contact. Can also be used as a barrier spray.

Equipment:

Five (5) ULV (ultra low volume) gas powered sprayers that are mounted on trucks

Two (2) truck mounted power sprayers for larviciding and barrier spraying

Two (2) backpack sprayers for barrier spraying and hand sprayers for thin film application

Fleet of 12 pickup trucks

Products marked with an asterisk (*) are also available for homeowners through retail and Internet vendors.