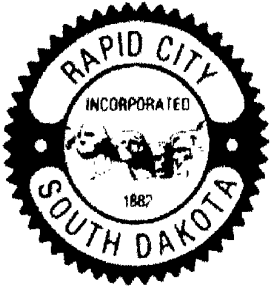


CITY OF RAPID CITY

300 SIXTH STREET
RAPID CITY, SOUTH DAKOTA 57701



PARKS AND RECREATION DEPARTMENT

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Parks & Cemetery
Manager
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(605-394-6161

James (JJ) Walraven
Golf Superintendent
(605) 394 4199

Parks and Recreation Memo

Date: March 24, 2004

To: Public Works Committee

From: Lon Van Deusen, Parks Division Manager

Subject: Rapid City Mosquito Control and West Nile Prevention Plan

Summary: The State legislature has made available to local government a 50/50 match grant program for 2004. The City Council must approve the request for the grant dollars. The grant money can only be used for equipment and materials purchase. As part of the grant request the community must also submit a budget and mosquito prevention and control plan. A draft of the plan, a budget summary, and the application for the grant are attached.

Recommendation: Staff recommends that the Public Works Committee approve the plan as drafted, approve the application for the grant money, and identify additional funding to cover the City portion of the grant or the entire program if the grant is not approved by the State of South Dakota

Analysis: With the advent of West Nile virus and the relatively high incidence of occurrence of this virus within the Rapid City area a plan for mosquito control has been developed by the Parks Division Manager and staff. The mosquito control plan as proposed would concentrate on larval control in public areas within the city that have standing pools of water. Controlling mosquitoes in this larval stage is the most efficient and effective way to control mosquito populations.

1. The Rapid City Mosquito Control Plan, Grant Application and Budget Summary are attached.
2. The grant applications will be accepted by the State Department of Health from April 1 through April 30, 2004. Applicants are

encouraged to apply as early as possible to allow time for revisions if necessary following the review.

3. Grant funding awards are based upon an application's overall rating score and prioritization. Prioritization will be based on a number of factors including but not limited to: cooperating partners, completeness and potential effectiveness of the proposed comprehensive mosquito control plan, long-term sustainability, estimated coverage area, population covered in the proposed control area, 2003 West Nile human disease occurrence and new start-up programs.
4. \$750,000 is available in the State Grant program.
5. The Rapid City Mosquito Control Plan will emphasize larval control city wide in known public areas where standing water is present. Adult mosquito control will take place in major outdoor recreation areas, golf courses, swimming pools, soccer fields, baseball and softball fields and along the main route of the bike path (especially along Rapid Creek and Lime Creek. At this point there are no plans to do a street by street adult mosquito control measures only an extensive larvaciding program with adult mosquito control in recreational and park areas.
6. Presently \$10,000 exists in the Parks Division operational budget for mosquito control. Additional funds would need to be secured regardless of receiving grant money or not. **See attached funding proposal.**

Rapid City Mosquito Control Funding Proposal

Draft 3/25/2004

2004 City of Rapid City Budget 0607-0208-4225	\$ 10,000.00
Apply for State of South Dakota Mosquito Control Grant	\$ 11,038.00 **
** Total Eligible Expenses \$ 22,076.00 / 50% Cash Match Required	
Additional Funding Required for Proposed Budget	<u>\$ 27,658.00</u> ***
*** Includes \$ 1,038.00 Additional Grant Match Required Assumes City of Rapid City will apply for and receive a State Of South Dakota Mosquito Control Grant	
<u>Total Proposed Budget</u>	<u>\$ 48,696.00</u>

*** In the event the City of Rapid City does not receive a State Grant the Required Additional Funding for the plan as proposed would be \$ 38,696.00. If labor costs are covered by reducing services within the Parks Division (\$ 21,620.00) the additional funding required for equipment and supplies only would be \$ 17,076.00.**

City of Rapid City Mosquito Control Applicator Plan

Draft 3/25/2004

1. Storm Drains and Small Ponds which are affected by rain fall.

Treat with a 30 Day Briquet and a Monomolecular Film every 30 days or 5 Times per summer. Estimate 16 Hours Labor per Month

2. Large Drainages, (Knollwood, Meade etc.)

Treat with 150 Day Briquets 1 Time per summer.
Treat with Granular Larvicide every 10 Days
Estimate 48 Hours Labor Per Month

3. ULV Weekly Application with Adulticide Public Areas

Mornings Estimate 50 Hours per month

1. Star of West Complex
2. Canyon Lake, Sioux Park, Robbinsdale, Roosevelt
3. Little League Areas
4. Bike Path, Primary trail only

4. ULV 3 to 4 Applications per Week.

Evenings Estimate 76 Hours Labor Per Month

1. 3 Golf Courses
2. 3 Outdoor Pool Areas (During Season)
3. Storybook Island and adjacent Areas (During Season)

5. Monitoring 2 sites

Estimate 12 hours per month

City of Rapid City Proposed Mosquito Control Budget 2004

Draft 3/25/2004

Quantity and Cost Estimate of Products Needed:

30 Day Larvicide Briquette 1500 @ .90 each	\$	1350.00
150 Day Larvicide Briquette 440 @ \$2.65 each	\$	1166.00
Monomolecular Film 10 gallons @ \$27.65	\$	276.50
Granular Larvicide 1520 lbs @ \$1.41 each	\$	2,143.20
Adulticide 50 Gallons @ 125.61 each (Permanone 30-30)	\$	6,280.50
Formulating Oil 200 gallons @ 7.10 each	\$	<u>1,420.00</u>

Total Product Cost \$ 12,636.20

Equipment Acquisition Costs

2 Light Traps	\$	153.00
2 ULV Sprayers	\$	8,000.00
2 Back Pack Unit	\$	1,225.00
6 Larval Dippers @ \$10.30 each	\$	<u>61.80</u>

Total Equipment Costs \$ 9439.80

Labor

Larvicide Briquets 80 Hours @ \$21.38	\$	1,710.20
Larvicide Granular 240 Hours @ \$21.38	\$	5,131.00
Adulticide ULV 630 Hours @ \$21.38	\$	13,496.20
Monitoring 60 Hours @ \$21.38	\$	<u>1,282.60</u>

Total Labor Costs \$ 21,620.00

Public Awareness and Education

Office of Emergency Management (Mailings, Brochures, etc)	\$	<u>5,000.00</u>
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Total Public Awareness Costs \$ 5,000.00

Total Budget Proposal \$ 48,696.00