

*City of  
La Pine, Oregon*

*2021*

*Pesticide Use Plan*

## VECTOR CONTROL PESTICIDE USE PLAN

This is a multi-part form. Page three is a **Target Pest Information** worksheet that must be filled out for each pest for which a treatment is planned during the season. Page four is a **Control Agent Worksheet**. This information must be supplied for each pesticide product or biological control agent that the district intends to use. Attach additional sheets as needed. A form containing the specified information in another format may be substituted, but, please include all information indicated on these forms.

**District Name:** City of La Pine, Oregon

**Date:** February 07, 2021

***Applicator Information***

**Name:** Horvath, Edward Stephen (Three Rivers Mosquito and Vector Control)

**Address:** 651 Market Street

**City/Zip:** Klamath Falls, Oregon 97601-6252

**Telephone:** (541) 238-2272

**E-Mail:** [info@trmvc.com](mailto:info@trmvc.com)

**Pesticide Applicator License#:** AG-L1021442CPO

The City of La Pine, Oregon is approximately 4,470 acres, situated along Hwy 97, approximately 20 miles south of the City of Bend, Oregon.

***Additional District Information*** (complete only if there is a contact person who should receive official correspondence in addition to pesticide applicator):

**District Contact Name/Title:** Rick Allen, Interim City Manager

**District Address:** PO Box 2460

**District City/Zip:** La Pine, Oregon 97739

**District Phone:** (541) 536-1432

**FAX:** (541) 536-1462

**PUBLIC NOTIFICATION METHOD** (check all that apply):

☐ Newspaper

☐ Television

☐ Radio

☐ Mailer

☒ Newsletter

☐ Bulletin Board Notices

☒ Recorded Telephone Message

☒ Other City/Project Website and Text Messages

**PUBLIC NOTIFICATION INFORMATION** (provide a short description of notification plan, i.e., timing, frequency, languages other than English, etc.):

The City of La Pine provides public notice for the application of pesticides via the Official City Website (<http://www.ci.la-pine.or.us>). TRMVC also provides information through our website ([www.lapinemosquito.org](http://www.lapinemosquito.org)). Notice is also posted at the Rosland Campground.

## TARGET PEST INFORMATION

### IMPORTANT: COMPLETE ONE SHEET FOR EACH TARGET PEST

**Target Pest:** Check only one target pest per worksheet.

☐ Mosquito Larvae

☐ Domestic Rat

☐ Domestic Fly

☒ Mosquito Adult

☐ Other Pest (specify)

## MONITORING METHOD/TREATMENT THRESHOLD

*(Indicate the monitoring method and threshold for treatment)*

**Monitoring Method:** Method used to determine if treatment is necessary is by landing count on humans and by citizen/staff complaints. A technician enters an area and the number of mosquitoes landing on him from the waist down for a period of 30 to 60 seconds is noted. Moving to another location approximately 100 feet further into the source area an additional count is observed.

**Treatment Threshold:** Should a count of 2 to 5 adult mosquitoes are present at any location, some type of control is warranted to justify adulticiding. This threshold justification for treatments is in accordance with NPDES General Permit 2300A.

## EFFICACY SAMPLING

*(Indicate which treatments will be followed by an evaluation of efficacy, and what method will be used for the evaluation)*

Service requests and/or comments from landowners are used for efficiency and efficacy of materials used, as well as a check by the applicator; through follow-up landing rate counts. Weather and environmental changes; wind, rain, smoke from area forest fires settling in the area often bring on an influx of adult mosquitoes into this area. Bioassays are conducted twice a season for pesticide effectiveness and resistance monitoring.

## SURVEILLANCE FOR IMPACTS ON NON-TARGET SPECIES

*(List methods used to determine impacts on non-target species.)*

Generally, adulticides are not species specific but at the label rates and hours applied, non-target species are at a minimal risk. Applications are normally made evenings/nights after bees are inactive from foraging during the hot summer. Whenever applications are to be made in potentially sensitive areas, local Fish and Wildlife will be consulted. A buffer zone of 100 feet from stream edge are maintained.

**TOTAL NUMBER OF AGENTS (PESTICIDES AND BIOLOGICAL CONTROLS) TO BE USED FOR CONTROL:** From 1 to 2

Vector Control Pesticide Use Plan: District:  
Date:

City of La Pine, Oregon:  
February 07, 2021

## TARGET PEST INFORMATION

### IMPORTANT: COMPLETE ONE SHEET FOR EACH TARGET PEST

**Target Pest:** Check only one target pest per worksheet.

☒ Mosquito Larvae

☐ Domestic Rat

☐ Domestic Fly

☐ Mosquito Adult

☐ Other Pest (specify)

## MONITORING METHOD/TREATMENT THRESHOLD

*(Indicate the monitoring method and threshold for treatment)*

**Monitoring Method:** Officially, the City of La Pine has not conducted any surveillance or control of mosquito larvae. In 2014, TRMVC staff identified potential larval habitats. These habitats will be surveyed and monitored and a recommendation to the City will be made if treatment is justified. Monitoring method most used for mosquito larvae is the hand-held dipper. Type of source, size and location, number found in each dip will determine what, if any, control method is to be used.

**Treatment Threshold:** Mosquito larvae counts exceeding five (5) mosquito larvae per dip will justify pesticide applications. Ridding the area of containers collecting water, drainage of small areas, soliciting public and property owners' assistance to abate a source whenever necessary.

## EFFICACY SAMPLING

*(Indicate which treatments will be followed by an evaluation of efficacy, and what method will be used for the evaluation)*

Checking of larvacide treatments for appropriateness of material used, completeness of application of material and the efficiency in reducing the number of mosquito larvae in the source area will be conducted within seven (7) days post application. Monitoring of service requests and/or complaints near the source area will also be used to make judgments of effectiveness of applications of larvacide if application is approved by the City. Bioassays are conducted for pesticide effectiveness and resistance monitoring.

## SURVEILLANCE FOR IMPACTS ON NON-TARGET SPECIES

*(List methods used to determine impacts on non-target species.)*

Visual inspections are made to evaluate applications and to determine if there has been any non-target impact.

**TOTAL NUMBER OF AGENTS (PESTICIDES AND BIOLOGICAL CONTROLS) TO BE USED FOR CONTROL:** From 1 to 3

Vector Control Pesticide Use Plan: District:  
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### CONTROL AGENT WORKSHEET

**IMPORTANT:** Complete One Worksheet for each Control Agent

**PRODUCT NAME:** Natular™ XRT

**EPA REGISTRATION#:** 8329-84

**ACTIVE INGREDIENTS:**

<b>Spinosad</b> , (a mixture of spinosyn A and spinosyn D)	<b>6.25 %</b>
<b>Othe Ingredients</b>	<b>93.75%</b>
<a href="#"><u>LABEL</u></a>	

**TARGET PEST:**

Mosquito, Larva

**RATE OF APPLICATION:** *(Give in units of pounds of active ingredient per acre and/or pounds of product per acre)*

1 each/ 100 ft<sup>2</sup>

**APPLICATION METHOD:** *(Describe the application apparatus, product diluent, mixture, if any, and application process)*

For applications in storm water drainage areas, sewers and catch basins, place 1 Natular™ XRT tablet into each catch basin.

**APPLICATION SITE:** *(Describe the types of pest habitat where the product will be applied)*

Used in catch basins and manmade containers.

POUNDS OF ACTIVE INGREDIENT TO BE USED: **Approximately 30 each**

ACRES TO BE TREATED: **Approximately 300 ft<sup>2</sup>**

POUNDS OF ACTIVE INGREDIENT USED LAST YEAR: **0.00 each**

ACRES TREATED LAST YEAR: **0.00 A**

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### CONTROL AGENT WORKSHEET

**IMPORTANT:** Complete One Worksheet for each Control Agent

**PRODUCT NAME:** Aqualuer® 20-20

**EPA REGISTRATION#:** 769-985

**ACTIVE INGREDIENTS:**

<b>Permethrin</b> Piperonyl Butoxide Technical <b>Inert Ingredients</b>  <a href="#">LABEL</a>	<b>20.6 %</b> <b>20.6%</b> <b>58.8%</b>
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**TARGET PEST:**

Mosquito, Adult

**RATE OF APPLICATION:** (Give in units of pounds of active ingredient per acre and/or pounds of product per acre)

0.0035 lbs/A

**APPLICATION METHOD:** (Describe the application apparatus, product diluent, mixture, if any, and application process)

Ultra-Low-Volume Aerosol, Clarke Cougar with variable Smart Flow. Diluted with water and applied at a mixed rate of 0.83 oz/acre.

ULTA-Low-Volume Aerosol, Curtis Dyna-Fog, Mini Light fogger mounted on an ATV, to treat hard to reach areas.

**APPLICATION SITE:** (Describe the types of pest habitat where the product will be applied)

Residential Areas

POUNDS OF ACTIVE INGREDIENT TO BE USED: **Approximately 38.50 lbs AI**

ACRES TO BE TREATED: **Approximately 11,000 A**

POUNDS OF ACTIVE INGREDIENT USED LAST YEAR: **38.01 lbs AI**

ACRES TREATED LAST YEAR: **10,851.64 A**

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### CONTROL AGENT WORKSHEET

**IMPORTANT:** Complete One Worksheet for each Control Agent

**PRODUCT NAME:** Aqualuer 20-20

**EPA REGISTRATION#:** 769-985

**ACTIVE INGREDIENTS:**

<b>Permethrin</b> Piperonyl Butoxide Technical <b>Inert Ingredients</b>  <a href="#">LABEL</a>	<b>20.6 %</b> <b>20.6%</b> <b>58.8%</b>
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**TARGET PEST:**

**Mosquito, Adult (Barrier Treatment)**

**RATE OF APPLICATION:** *(Give in units of pounds of active ingredient per acre and/or pounds of product per acre)*

0.025 lbs/A

**APPLICATION METHOD:** *(Describe the application apparatus, product diluent, mixture, if any, and application process)*

Diluted with water and applied with a Maruyama backpack mister. Evenly sprayed on grass, shrubs and trees around the City Park and Frontier Days Property, to control resting mosquitoes, once a season, for a community event.

**APPLICATION SITE:** *(Describe the types of pest habitat where the product will be applied)*

City Park and/or Frontier Days Property, applied prior to the Frontier Days event in July.

POUNDS OF ACTIVE INGREDIENT TO BE USED: **0.50 lbs AI**

ACRES TO BE TREATED: **Approximately 12.00**

POUNDS OF ACTIVE INGREDIENT USED LAST YEAR: **0.00 lbs AI**

ACRES TREATED LAST YEAR: **0.00 A**

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## CONTROL AGENT WORKSHEET

### IMPORTANT: Complete One Worksheet for each Control Agent

PRODUCT NAME: VectoLex® FG

EPA REGISTRATION#: 73049-20

ACTIVE INGREDIENTS:

*Bacillus sphaericus*

**7.50%**

0.023B ITU/lb material

[LABEL](#)

### TARGET PEST:

**Mosquito, Larvae**

**RATE OF APPLICATION:** *(Give in units of pounds of active ingredient per acre and/or pounds of product per acre)*

5.0-20.0 lbs/acre

**APPLICATION METHOD:** *(Describe the application apparatus, product diluent, mixture, if any, and application process)*

Applied by hand, Maruyama Belly Grinder, Maruyama backpack blower, horn seeded and/or sUAV.

**APPLICATION SITE:** *(Describe the types of pest habitat where the product will be applied)*

Freshwater swamps and marshes, pastures, woodland pools and meadows, drainage areas, ditches and other man-made depressions where 1<sup>st</sup> through early 4<sup>th</sup> in-star larvae are to be eliminated.

POUNDS OF ACTIVE INGREDIENT TO BE USED: **23.00 B ITU**

ACRES TO BE TREATED: **100.00 A**

POUNDS OF ACTIVE INGREDIENT USED LAST YEAR: **0.5888 B ITU**

ACRES TREATED LAST YEAR: **25.60 A**



**CONTROL AGENT WORKSHEET****IMPORTANT: Complete One Worksheet for each Control Agent**

PRODUCT NAME: VectoLex® WDG

EPA REGISTRATION#: 73049-57

ACTIVE INGREDIENTS:

<i>Bacillus sphaericus</i>  0.299 B ITU/lb-material  <a href="#">LABEL</a>	<b>51.2%</b>
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**TARGET PEST:****Mosquito, Larvae****RATE OF APPLICATION:** *(Give in units of pounds of active ingredient per acre and/or pounds of product per acre)*0.5 – 1.5 lbs/Acre<sup>2</sup>**APPLICATION METHOD:** *(Describe the application apparatus, product diluent, mixture, if any, and application process)*

Power sprayer, pressurized truck mounted sprayer, powered backpack sprayer and/or sUAVs..

**APPLICATION SITE:** *(Describe the types of pest habitat where the product will be applied)*Freshwater swamps and marshes, pastures, woodland pools and meadows, drainage areas, ditches and other man-made depressions where 1<sup>st</sup> through early 4<sup>th</sup> in-star larvae are to be eliminated.POUNDS OF ACTIVE INGREDIENT TO BE USED: **14.95 B ITU**ACRES TO BE TREATED: **50.00 A**POUNDS OF ACTIVE INGREDIENT USED LAST YEAR: **0.00 B ITU**ACRES TREATED LAST YEAR: **0.00 A**

### **SENSITIVE AREAS AND SPECIES**

*(Provide a description of sensitive areas. Map(s) that show sensitive areas, areas to be treated by larvaciding and areas to be treated by adulticiding should be on file with ODFW. If new sensitive areas are identified include new maps with this application.)*

Although the ODFW and ODHS have no authority to approve Pesticide Use Plans for Non-VCD activities as identified in ORS 452, TRMVC requests these agencies review our activities and provide recommendations, feedback and guidance to protect Fish & Wildlife and human health & welfare. TRMVC intends to operate within the “Oregon Department of Fish and Wildlife’s Vector Control Guidance for Sensitive Areas” as much as is allowed within our contracts, as well as promote and recommend Integrated Mosquito Management.

The Oregon Department of Fish and Wildlife (ODFW) has statutory authority under ORS 452.140 and ORS 452.245 to annually approve Pesticide Use Plans (*for Vector Control Districts*). ODFW recommends the treatment protocols outlined in the “Oregon Department of Fish and Wildlife’s Vector Control Guidance for Sensitive Areas” as a means to protect fish, wildlife, and their habitats while allowing for efficient and effective control of vector species to protect human health. The “Oregon Department of Fish and Wildlife’s Vector Control Guidance for Sensitive Areas” document provides ODFW’s recommendations only. Should the City of La Pine, Oregon choose to implement an IPM plan that varies from ODFW’s recommendations, our authority comes from another source, such as label restrictions (EPA and FIFRA), NOAA and USFWS rules, ODA’s pesticide rules, DEQ’s Pesticide General Permit, and OHA’s annual PUP approval. Variation from ODFW’s recommendations does not constitute a violation of the PUP approval as long as all other State and Federal regulations are followed. TRMVC understands, however, that ODFW reserves the ability to more strictly implement their statutory authority at any time new research reveals threats to fish, wildlife, or their habitats or new products become available for use. In addition, ODFW requires prior communication with local staff concerning surveillance, issues or treatment on ODFW-owned or managed Wildlife Areas.

TRMVC will maintain and monitor a 100-foot buffer from all fish bearing waters.

### **EDUCATIONAL ACTIVITIES OF DISTRICT**

*(Provide a brief description of educational outreach, including programs for source control in the community.)*

TRMVC educates the public through fliers, news releases and social media (i.e.facebook.com). This information includes how to help with mosquito reduction, general mosquito and disease information and updates of mosquito borne disease updates and news from the region. If needed in an emergency, we have access to television news and radio.

We have put together educational coloring and activity books for the school aged children and are available as PDF files. TRMVC may also have an educational/informational booth at community events.