ATTACHMENT G - NOTICE OF INTENT

WATER QUALITY ORDER NO. 2011-0002-DWQ GENERAL PERMIT NO. CAG 990004

STATEWIDE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT FOR BIOLOGICAL AND RESIDUAL PESTICIDE DISCHARGES TO WATERS OF THE UNITED STATES FROM VECTOR CONTROL APPLICATIONS

FROM VECTOR CONTROL APPLICATIONS				
I. NOTICE OF INTENT STATUS (see Instructions)				
Mark only one item ☐ A. New Applicator ☐B. Change of Information: WDID#				
☐C. Change	of ownershi	o or responsibility:	WDID#	
II. DISCHARGER INFORMATION				
A. Name Mammoth Lakes Mosquito Abatement District				
B. Mailing Address P.O. Box 1943				
C. City	D. County		E. State	F. Zip Code
Mammoth Lakes	Moro	1	CA	93346
G. Contact Person	H. Email a	ddress	I. Title	J. Phone
Stephen Ganong	saganong	enpgcable.com	General Munager	760
III. BILLING ADDRESS (Enter Information <u>only</u> if different from Section II above)				
A. Name				
B. Mailing Address			_	
C. City	D. County		E. State	F. Zip Code
G. Email address	H. Title	r	I. Phone	
,		i		

GENERAL NPDES PERMIT FOR BIOLOGICAL AND RESIDUAL PESTICIDE DISCHARGES FROM VECTOR CONTROL APPLICATIONS

ORDER NO. 2011-0002-DWQ NPDES NO. CAG 990004

IV. RECEIVING WATER INFORMATION	
A. Biological and residual pesticides discharge to (check a	all that apply)*:
Canals, ditches, or other constructed conveyance Name of the conveyance system:	e facilities owned and controlled by Discharger.
the Discharger.	e facilities owned and controlled by an entity other than
N	
,	
3. Directly to river, lake, creek, stream, bay, ocean, Name of water body: Mamhoth Cre	etc.
* A map showing the affected areas for items 1 to	3 above may be included.
B. Regional Water Quality Control Board(s) where applica	tion areas are located
(REGION 1, 2, 3, 4, 5, 6, 7, 8, or 9): Region 6 (List all regions where pesticide application is proposed	
A map showing the locations of A1-A3 in each Regiona	Water Board shall be included.
V. PESTICIDE APPLICATION INFORMATION	
A. Target Organisms: V Vector Larvae V Adu	ılt Vector
BEE SHOOT OF S	
B. Pesticides Used: List name, active ingredients and, if k	nown, degradation by-products
÷:	
see attachments	
C. Period of Application: Start Date May	End Date Sept
D. Types of Adjuvants Added by the Discharger:	
None	·
VI. PESTICIDES APPLICATION PLAN	•
A. Has a Pesticides Application Plan been prepared?*	
☑ Yes □ No	•
If not, when will it be prepared?	
* A copy of the PAP shall be included with the NOI.	
B. Is the applicator familiar with its contents?	
Yes 🗆 No	

GENERAL NPDES PERMIT FOR BIOLOGICAL AND RESIDUAL PESTICIDE DISCHARGES FROM VECTOR CONTROL APPLICATIONS

ORDER NO. 2011-0002-DWQ NPDES NO. CAG 990004

VII. NOTIFICATION		
Have potentially affected governmental ☐ Yes ☑ No	agencies been notified?	
* If yes, a copy of the notifications shall	be attached to the NOI.	
VIII. FEE		
Have you included payment of the filing fee (✓ Yes ☐ NO ☐ N	for first-time enrollees only) with this solutions $\frac{1}{3}$	submittal?
IX. CERTIFICATION		
"I certify under penalty of law that this do supervision in accordance with a system the information submitted. Based on my persons directly responsible for gatherinknowledge and belief, true, accurate, and false information, including the possibility General Permit, including developing and	designed to ensure that qualified per inquiry of the person or persons who g the information, the information sub d complete. I am aware that there an y of fine or imprisonment. Additionally	rsonnel properly gather and evaluate manage the system, or those mitted is, to the best of my e significant penalties for submitting y. I certify that the provisions of the
A. Printed Name: Stroben Ga B. Signature: C. Title:	Date:	11/18/11
X. FOR STATE WATER BOARD USE O	ONLY 5	
WDID:	Date NOI Received:	Date NOI Processed:
Case Handler's Initial:	Fee Amount Received:	Check #:

Mammoth Lakes Mosquito Abatement District NOI attachment:

V. b. Pesticides Used

Pesticide Name (from label)	EPA Registra	ntion Number
Altosid XR Ingots	2724-421	
Altosid 30-day pellets	2724-448	r r
VectoBac	7349-10	
Agnique MMF	53263-28	
Scourge 4-12 (Bayer)	432-716	:

Pesticide Application Plan for the Mammoth Lakes Mosquito Abatement District in accordance with WATER QUALITY ORDER NO. 2011-0002-DWQ

GENERAL PERMIT NO. CAG 990004

STATEWIDE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT FOR BIOLOGICAL AND RESIDUAL PESTICIDE DISCHARGES TO WATERS OF THE UNITED STATES FROM VECTOR CONTROL APPLICATIONS

The Discharger shall develop a Pesticides Application Plan (PAP) that contains the following elements:

 Description of ALL target areas, if different from the water body of the target area, in to which larvicides and adulticides are being planned to be applied or may be applied to control vectors. The description shall include adjacent areas, if different from the water body of the target areas;

See attached map.

Mammoth Lakes Mosquito Abatement District services approximately 1/3 of the town of Mammoth lakes. Primarily alpine wetlands and bordered by US Forest Service land on the west, Meridian Blvd on the north, Snowcreek Athletic Club to the east, and the Sherwin mountain range to the south.

2. Discussion of the factors influencing the decision to select pesticide applications for mosquito control;

Please see the **Best Management Practices for Mosquito Control in California**.

3. Pesticide products or types expected to be used and if known, their degradation byproducts, the method in which they are applied, and if applicable, the adjuvants and surfactants used;

Please see Attachments E and F within NPDES Permit for Biological and Residual Pesticide Discharges to Waters of the U.S. for Vector Control Applications. Products may be applied by hand, truck, backpack, hand can, helicopter, or airplane according to label directions.

- 4. Description of ALL the application areas* and the target areas in the system that are being planned to be applied or may be applied. Provide a map showing these areas; Any site that holds water for more than 96 hours (4 days) can produce mosquitoes. Source reduction is the Mammoth Lakes Mosquito Abatement District's preferred solution, and whenever possible the agency works with property owners to affect long-term solutions to reduce or eliminate the need for continued applications as described in Best Management Practices for Mosquito Control in California. The typical sources treated by this agency include:
 - Alpine Wetland Meadows
 - Stagnate Settling Ponds
 - Underground Vaults and Drainages
 - Roadside ditches with standing water

- Golf Course Features
- Snowmelt Pools and Ponds
- Manmade Old Mining Depressions
- Residential Standing Water Features
- Manmade Drainages in City Funded Housing Projects
- Lakes Basin

5. Other control methods used (alternatives) and their limitations;

With any source of mosquitoes or other vectors, the Mammoth Lakes Mosquito Abatement District's first goal is to look for ways to eliminate the source, or if that is not possible, for ways to reduce the potential for vectors. The most commonly used methods and their limitations are included in the <u>Best Management Practices for Mosquito Control in California</u>.

Specific methods used by the District included educating residents through public announcement programs created by Mono County Public Health Department that mosquitoes develop in standing water and encouraging the removal of sources of standing water on their property, and working with property owners to identify sources and find long-term water management strategies that meet their needs while minimizing the need for public health pesticide applications.

District personnel deploy hand tools when practical to eliminate standing water. District Manager meets with town planners and public health officer regarding future development projects which may include water features that may breed mosquitoes.

District Manager works closely with golf course managers and staff, water district staff, US Forest Service, and the Town Bear Management Specialist to help identify, and log, newly identified mosquito sources and to educate and assist with practical methods to identify and eliminate ever changing standing water sources that breed mosquitoes in order to reduce or eliminate public health pesticide applications.

6. How much product is needed and how this amounts was determined;

The need to apply product is determined by surveillance. Actual use varies annually depending on mosquito abundance. The pesticide amounts presented below were taken from the Mammoth Lakes Mosquito Abatement District's 2009 PUR as an estimate of pesticide use in 2011. Other public health pesticides in addition to those listed below may be used as part of the agency's best management practices.

2009 Pesticide use

Pesticide Name (from label)	EPA Registration Number	Amount applied	Units
Altosid XR Ingots	2724-421	73.53	lbs
Altosid 30-day pellets	2724-448	112	lbs

VectoBac	7349-10	25	lbs
Agnique MMF	53263-28	76	fl. oz
Scourge 4-12 (Bayer)	432-716	386	fl. oz

2009 was a typical year for abatement in the District which could be used as a measure for anticipated use in future years.

7. Representative monitoring locations* and the justification for selecting these monitoring locations

Please see the MVCAC NPDES Coalition Monitoring Plan

8. Evaluation of available BMPs to determine if there are feasible alternatives to the selected pesticide application project that could reduce potential water quality impacts; and

Please see the **Best Management Practices for Mosquito Control in California**

- 9. Description of the BMPs to be implemented. The BMPs shall include at a minimum:

 The Mammoth Lakes Mosquito Abatement District's BMPs are described in the Best

 Management Practices for Mosquito Control in California and in the California Mosquitoborne Virus Surveillance and Response Plan. Specific elements have been highlighted below under items a-f.
 - a. measures to prevent pesticide spill;
 All pesticide applicators receive annual spill prevention and response training.
 Agency employees ensure daily that application equipment is in proper working order. Spill mitigation devices are placed in all vehicles and pesticide storage areas.
 - b. measures to ensure that only a minimum and consistent amount is used Application equipment is calibrated at least annually as required by the Department of Pesticide Regulations (DPR) and the terms of a cooperative agreement with the California Department of Public Health (CDPH).
 - c. a plan to educate Coalition's or Discharger's staff and pesticide applicator on any potential adverse effects to waters of the U.S. from the pesticide application; This will be included in our pesticide applicators annual pesticide application and safety training, continuing education programs, and/or regional NPDES Permit training programs.
 - d. descriptions of specific BMPs for each application mode, e.g. aerial, truck, hand, etc.;

The Mammoth Lake Mosquito Abatement District calibrates truck-mounted and handheld larviciding equipment each year to meet application specifications. Management reviews application records daily to ensure appropriate amounts of material are being used. Ultra-low volume (ULV) application equipment is calibrated

for output and droplet size to meet label requirements. Aerial larviciding and adulticiding equipment is not used by the District.

- e. descriptions of specific BMPs for each pesticide product used; and
 Please see the <u>Best Management Practices for Mosquito Control in California</u> for
 general pesticide application BMPs, and the current approved pesticide labels for
 application BMPs for specific products.
- f. descriptions of specific BMPs for each type of environmental setting (agricultural, urban, and wetland).

Please see the Best Management Practices for Mosquito Control in California.

- 10. Identification of the problem. Prior to first pesticide application covered under this General Permit that will result in a discharge of biological and residual pesticides to waters of the US, and at least once each calendar year thereafter prior to the first pesticide application for that calendar year, the Discharger must do the following for each vector management area:
 - a. If applicable, establish densities for larval and adult vector populations to serve as action threshold(s) for implementing pest management strategies;

The Mammoth Lakes Mosquito Abatement District staff only applies pesticides to sources of mosquitoes that represent imminent threats to public health or quality of life. The presence of any mosquito may necessitate treatment, however higher thresholds may be applied depending on the agency's resources, disease activity, surveillance data, or local needs. Treatment thresholds are based on a combination of one or more of the following criteria:

- Mosquito species present
- Mosquito stage of development
- Pest, nuisance, or disease potential
- Disease activity
- Mosquito abundance
- Flight range
- Proximity to populated areas
- Size of source
- Presence/absence of natural enemies or predators
- Presence of sensitive/endangered species or habitats.
- b. Identify target vector species to develop species-specific pest management strategies based on developmental and behavioral considerations for each species; Please see the <u>Best Management Practices for Mosquito Control in California</u> and the <u>California Mosquito-borne Virus Surveillance and Response Plan</u>.

c. Identify known breeding areas for source reduction, larval control program, and habitat management; and

Any site that holds water for more than 96 hours (4 days) can produce mosquitoes. Source reduction is the agency's preferred solution, and whenever possible the agency works with property owners to implement long-term solutions to reduce or eliminate the need for continued pesticide applications as described in the <u>Best Management Practices</u> for Mosquito Control in California.

d. Analyze existing surveillance data to identify new or unidentified sources of vector problems as well as areas that have recurring vector problems.

This is included in the <u>Best Management Practices for Mosquito Control in California</u> and the <u>California Mosquito-borne Virus Surveillance and Response Plan</u> that the agency uses. The Mammoth Lakes Mosquito Abatement District continually collects adult and larval mosquito surveillance data, dead bird reports, and monitors regional mosquito-borne disease activity (including near-by Owens Valley) detected in humans, horses, birds, and/or other animals, and uses these data to guide mosquito control activities.

- 11. Examination of Alternatives. Dischargers shall continue to examine alternatives to pesticide use in order to reduce the need for applying larvicides that contain temephos and for spraying adulticides. Such methods include:
 - a. Evaluating the following management options, in which the impact to water quality, impact to non-target organisms, vector resistance, feasibility, and cost effectiveness should be considered:
 - No action
 - Prevention
 - Mechanical or physical methods
 - Cultural methods
 - Biological control agents
 - Pesticides

If there are no alternatives to pesticides, dischargers shall use the least amount of pesticide necessary to effectively control the target pest.

The Mammoth Lakes Mosquito Abatement District uses the principles and practices of Integrated Vector Management (IVM) as described on pages 26 and 27 of the <u>Best Management Practices for Mosquito Control in California</u>. As stated in item #10 above, locations where vectors may exist are assessed, and the potential for using alternatives to pesticides is determined on a case-by-case basis. Commonly considered alternatives include: 1) Eliminate artificial sources of standing water; 2) Ensure temporary sources of surface water drain within four days (96 hours) to prevent adult mosquitoes from developing; 3) Control plant growth in ponds, ditches, and shallow wetlands; 4) Design facilities and water conveyance and/or holding structures to minimize the potential for producing mosquitoes; and 5) Use appropriate biological control methods that are available. Additional alternatives to

using pesticides for managing mosquitoes are listed on pages 4-19 of the <u>Best Management Practices for Mosquito Control in California</u>.

Implementing preferred alternatives depends a variety of factors including availability of agency resources, cooperation with stakeholders, coordination with other regulatory agencies, and the anticipated efficacy of the alternative. If a pesticide-free alternative does not sufficiently reduce the risk to public health, pesticides are considered, beginning with the least amount necessary to effectively control the target vector.

b. Applying pesticides only when vectors are present at a level that will constitute a nuisance.

The Mammoth Lakes Mosquito Abatement District follows an existing IVM program which includes practices described in the <u>California Mosquito-borne Virus</u>

<u>Surveillance and Response Plan</u> and <u>Best Management Practices for Mosquito Control in California</u>.

A "nuisance" is specifically defined in California Health and Safety Code (HSC) §2002(j). This definition allows vector control agencies to address situations where even a low number of vectors may pose a substantial threat to public health and quality of life. In practice, the definition of a "nuisance" is generally only part of a decision to apply pesticides to areas covered under this permit. As summarized in the <u>California Mosquito-borne Virus Surveillance and Response Plan</u>, the overall risk to the public when vectors and/or vector-borne disease are present is used to select an available and appropriate material, rate, and application method to address that risk in the context of our IVM program.

12. Correct Use of Pesticides

Coalition's or Discharger's use of pesticides must ensure that all reasonable precautions are taken to minimize the impacts caused by pesticide applications. Reasonable precautions include using the right spraying techniques and equipment, taking account of weather conditions and the need to protect the environment.

This is an existing practice of the Mammoth Lake Mosquito Abatement District, and is required to comply with the Department of Pesticide Regulation's (DPR) requirements and the terms of our California Department of Public Health (CDPH) Cooperative Agreement. All pesticide applicators receive annual safety and spill training in addition to their regular continuing education.

13. If applicable, specify a website where public notices, required in Section VIII.B, may be found.

See the State Water Resources Control Board Website.

References:

Best Management Practices for Mosquito Control in California. 2010. Available by download from the California Department of Public Health—Vector-Borne Disease Section at http://www.westnile.ca.gov/resources.php under the heading Mosquito Control and Repellent Information. Copies may be also requested by calling the California Department of Public Health—Vector-Borne Disease Section at (916) 552-9730 or the Mammoth Lakes Mosquito Abatement District at (760)914-1354.

California Mosquito-borne Virus Surveillance and Response Plan. 2010. [Note: this document is updated annually by CDPH]. . Available by download from the California Department of Public Health—Vector-Borne Disease Section at http://www.westnile.ca.gov/resources.php under the heading Response Plans and Guidelines. Copies may be also requested by calling the California Department of Public Health—Vector-Borne Disease Section at (916) 552-9730 or the Mammoth Lakes Mosquito Abatement District at (760)914-1354.

MVCAC NPDES Coalition Monitoring Plan. 2011. [In development at the time of this draft]

STEPHEN A. GANONG

CDL S0168495 P.O. BOX 8042 MAMMOTH LAKES, CA 93546

PAY TO THE

ORDER OF

State Water Resources Control Board

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