

# Solano County Mosquito Abatement District

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LARRY PETRIE, Vice President - Vallejo  
CHARLES TONNESEN, Secretary - Fairfield  
JANE GALLAGHER, Vacaville  
HOWARD LUTE, Suisun  
JOHN RANKINE, Rio Vista  
RONALD SCHOCK, Trustee-at-Large  
MIKE WHITE, Benicia

2950 Industrial Ct.  
Fairfield, CA 94533-6500  
Telephone (707) 437-1116  
Fax (707) 437-1187

Meetings: Second Monday Every Month  
7:30 P.M.

JON A. BLEGEN, Manager  
CAROL EVKHANIAN, Biologist  
VICTOR BARACOSA, Supervisor  
TAMI WRIGHT, Sec./Bkpr.

RECEIVED

SEP 19 2011

September 16, 2011

DIVISION OF WATER QUALITY

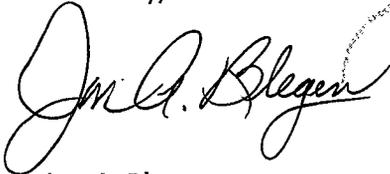
Philip Isorena, Chief  
NPDES Wastewater Unit  
State Water Resources Control Board  
Division of Water Quality  
P.O. Box 100  
Sacramento, CA 95812-0100

Dear Philip,

Enclosed is the addendum to the Pesticide Application Plan (PAP) for the NPDES Vector Control Permit Application of the Solano County Mosquito Abatement District.

Please do not hesitate to contact the District if you need any more information.

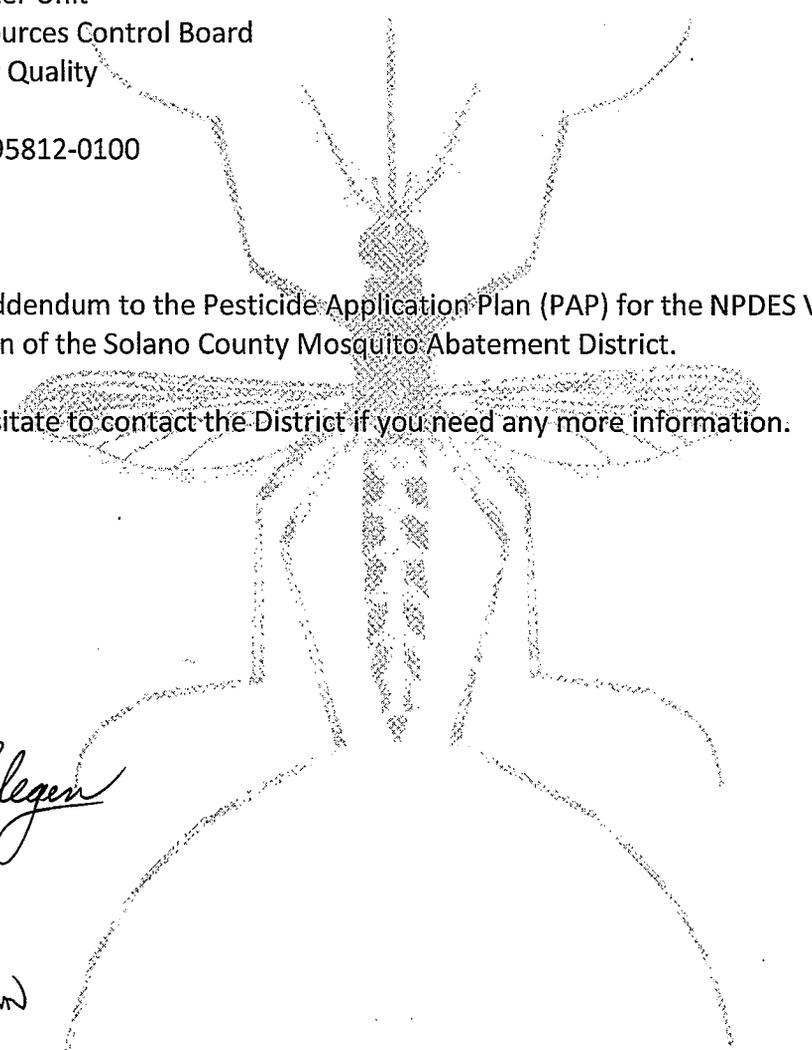
Sincerely,



Jon A. Blegen  
Manager



Carol Evkhanian  
Biologist



# ADDENDUM TO

## Pesticide Application Plan (PAP) for the NPDES Vector Control

### Permit Application of the Solano County Mosquito Abatement District

The following information is being provided in response to the three points raised by the SWRCB staff:

1. Description of ALL target areas: surface waters and waters of the U.S. within Solano County, CA. Map of Solano County enclosed.

*In prior years, the District has either applied larvicides directly to, or adulticides within the vicinity of the following water bodies:*

Lake Solano

West fork of McCune Creek-tributary to Putah Creek

Miller Canyon Creek-tributary to Putah Creek

Putah South Canal

Pleasant Creek, tributary to Putah Creek

Southeast fork of McCune Creek-tributary to Sweeney Creek

Gibson Canyon Creek-tributary to Sweeney Creek

West fork of Sweeney Creek-tributary to Putah Creek

English Creek-tributary to Putah South Canal

Southeast branch of Sweeney Creek-tributary to Ulatis Creek

Ulatis Creek-tributary to Main Prairie Slough

Alamo Creek-tributary to Ulatis Creek

Encinosa Creek-tributary to Alamo Creek

Laguna Creek-tributary to Alamo Creek

Hass Slough-tributary to Cache Slough

Main Prairie Slough-tributary to Cache Slough

Soda Springs-tributary to Laurel Creek

Laurel Creek-tributary to McCoy Creek

McCoy Creek-tributary to Hill Slough

Ledgewood Creek-tributary to Peytonia Slough

Union Creek-tributary to Hill Slough

Dry Road Creek-tributary to Wildhorse Creek

Wildhorse Creek-tributary to Green Valley Creek

Dan Wilson Creek-tributary to Green Valley Creek

Green Valley Creek-tributary to Cordelia Slough

Suisun Creek-tributary to Suisun Slough

Boynton Slough-tributary to Suisun Slough

Well Slough-tributary to Suisun Slough  
Shelldrake Slough-tributary to Suisun Slough  
Volanti Slough-tributary to Suisun Slough  
Denverton Slough-tributary to Nurse Slough  
Loco Slough-tributary to Nurse Slough  
Hastings Slough-tributary to Nurse Slough  
Nurse Slough-tributary to Little Honker Bay  
Hornan Slough-tributary to Suisun Slough  
Hastings Slough-tributary to Montezuma Slough (se)  
Suisun Slough-tributary to Grizzly Bay (upper portion of Suisun Bay)  
Montezuma Slough (sw-tributary to Grizzly Bay)  
Montezuma Slough (se-tributary to Sacramento River)  
Goodyear Slough  
Southampton Bay  
North Rindler Creek- tributary to Lake Chabot  
Lake Chabot- drains to Chabot Creek  
Central Rindler Creek- tributary to Lake Chabot  
South Rindler Creek- tributary to Lake Chabot  
Turner Creek-tributary to Lake Chabot  
San Pablo Bay

*In prior years, the District has applied adulticides and/or larvicides directly to or in the vicinity of canals, ditches, or other constructed conveyance facilities owned and controlled by:*

California Department of Fish and Game properties in the Suisun Marsh  
Collinsville Levee Maintenance District  
Solano Irrigation District  
2068 Reclamation District  
Main Prairie Water District  
Rural North Vacaville Water District  
Private Duck Clubs in the Suisun Marsh  
Reclamation District No. 501 (Ryer Island)  
Reclamation District 536 (Egbert Tract)  
Reclamation District 1607 (Van Sickle Island)  
Reclamation District 2034  
Reclamation District 2060 (Hastings Tract)  
Reclamation District 2068  
Reclamation District 2084  
Reclamation District 2093 (Liberty Island)  
Reclamation District 2098  
Reclamation District 2104 (Peters Pocket Tract)  
Reclamation District 2112 (Schafer Pintail)  
Reclamation District 2127 (Simmons Wheeler)  
Reclamation District 2129 (Frost Lake)

circulation ditches, repair of existing water control structures, removal of debris, weeds and emergent vegetation in natural channels, clearance of brush for access to streams tributary to wetland areas and filling of existing, non-functional water circulation ditches to achieve required water circulation dynamics and restore ditched wetlands. The District contracts with another agency having suitable equipment and expertise to perform the necessary maintenance on existing drainageways.

Examples areas within the District where maintenance has been done within the last 3 years are:

- (1) Removal of vegetation and sediment from 1,700 ft. of "Type A ditches" (small ditches up to 18 x 24 inch max.) lateral circulation ditches located 3.5 miles west of Mare Island in Vallejo and south of Hwy. 37, along the San Pablo Bay marsh in order to improve water circulation and reduce mosquito production.
- (2) Removal of vegetation and sediment from 4,300 ft. of "Type A ditches" located on the south end of Mare Island near the Carquinez Strait and along the San Pablo Bay marsh in order to improve water circulation and reduce mosquito production.

Annual meetings are held with the California Department of Fish and Game (Grizzly Island/Suisun Marsh) prior to the upcoming waterfowl season to discuss the District's findings from the previous season and any subsequent recommendations for maintenance and "cultural practices" such as water management to help reduce mosquito production problems.

A similar meeting is held with the Suisun Resource Conservation District to discuss the District's recommendations for maintenance and water management practices on seasonal wetland habitat that is privately owned in the Suisun Marsh.

Recommendations were made to one Reclamation District that involved the removal of excessive vegetation from supply ditches, disking areas with excessive pickleweed cover and the creation of a swale which in combination should facilitate the drain-down of a significant portion of the ponds. This in turn is intended to reduce the amount of acreage requiring pesticide treatment.

District staff reviews proposals for wetlands construction to assess their impact on mosquito production. Any necessary comments are made and appropriate guidelines are submitted regarding design and maintenance that will eliminate or greatly reduce the production of mosquitoes.

### 3. Limitations to the usage of alternative larval control methods include:

- Mosquitofish may not be suitable due to water quality issues.
- In ponds that are seasonally flooded for waterfowl habitat mosquitofish have not been found to successfully control *Aedes melanimon* larvae due to the enormous number of eggs (previously deposited on damp soil or at the base of vegetation) that hatch synchronously when inundated.
- A lack of resources for physical control or habitat manipulation, legal restrictions prohibiting the necessary improvements due to the presence of endangered species.

**Legend**

**Water District Boundaries**

- ▭ Maine Prairie Water District
- ▭ Rural North Vacaville Water District
- ▭ Solano Irrigation District

**Reclamation District Boundaries**

- ▭

**Levee District Boundaries**

- ▭ Collinsville Levee District

**Highways**

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**City Limits**

- - -

**County Parcels**

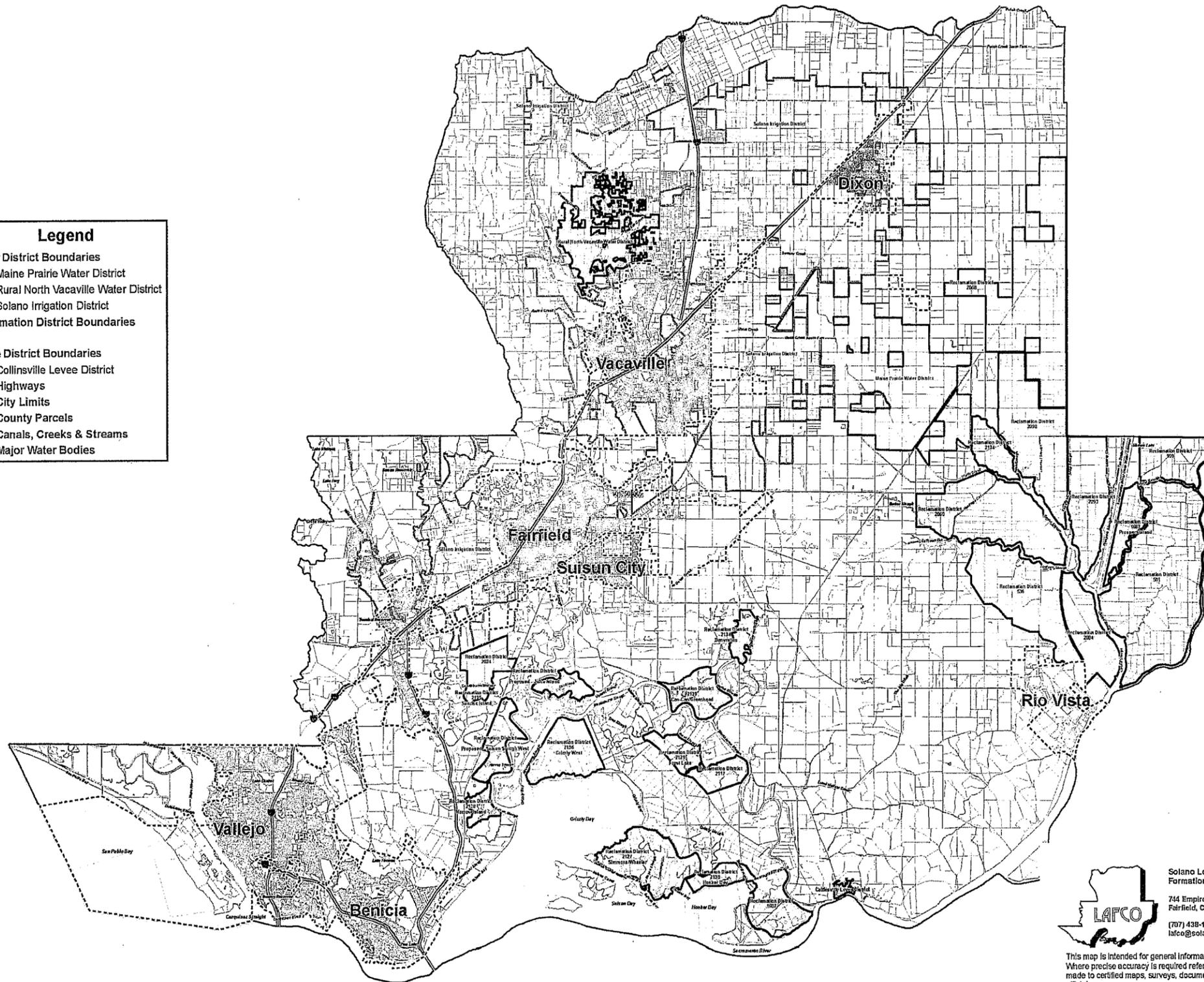
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**Canals, Creeks & Streams**

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**Major Water Bodies**

- ▭




Solano Local Agency  
Formation Commission  
744 Empire St., Suite 216  
Fairfield, CA 94533  
(707) 438-1785  
lafco@solanocounty.com

This map is intended for general information purposes only. Where precise accuracy is required reference should be made to certified maps, surveys, documents and/or by other official means.

Source: Solano County LAFCO



NOT TO SCALE

Michael Brandman Associates  
19130002 • 01/2009 | Exhibit\_1.ai

Exhibit 1  
Solano County Water, Irrigation, Reclamation, and Flood Management Agencies

SOLANO COUNTY LAFCO • MUNICIPAL SERVICE REVIEW  
WATER, IRRIGATION, RECLAMATION, AND FLOOD MANAGEMENT AGENCIES