



Irrigated Lands Waiver

Yolo County Farm Bureau Education Corporation

Subwatershed Program

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YEAR END WRAP UP

Listed on the back page are the exceedances found during this year's monitoring tests. More tests results on the August sample included an exceedance at both Cache Creek and Willow Sough for chlorpyrifos. This is the second time in less than three years, which triggers the development of management plans. The Coalition will work with Yolo County Agricultural Commissioner, Rick Landon, to evaluate usage and application patterns for this pesticide.

Additional evaluations of chlorpyrifos sources will be established as part of the management plans developed for the Willow Slough drainage.

Management Practices information will be mailed to growers in November. Growers farming next to waterways should carefully examine their management practices.

2008 MONITORING SITES TO LARGELY REMAIN THE SAME

Many sites were changed last year. The Regional Board has recommended the current locations continue to be monitored to provide more data. The parameters monitored will generally be a continuation of required MRP monitoring conducted in 2007, with the following proposed modifications:

- * Selenium has been determined not to be a parameter of site-specific or regional concern in the Sacramento Valley watershed.

- * Boron has been determined to be a parameter of concern only in the Solano-Yolo subwatershed of the Sacramento Valley. The Coalition proposes to discontinue monitoring of boron in all other Coalition subwatersheds.

- * Molinate and thiobencarb are crop-specific pesticides that may only be used on rice. These pesticides are adequately monitored by the California Rice Commission ILP monitoring program

- * Coalition monitoring conducted through 2007 has determined that glyphosate and paraquat are not parameters of significant concern in the Sacramento Valley. Glyphosate is a low risk herbicide that has been detected in only one Coalition sample, and has not been associated with any toxicity or exceedances. Paraquat has never been detected in any Coalition samples and has not been associated with any toxicity or exceedances. The Coalition proposes to discontinue monitoring of glyphosate and paraquat at all Coalition locations.

Landowner Identification in Subwatersheds

In subwatersheds where water quality exceedances occur, the Coalition first identifies landowners or tenants with properties that have the potential to contribute to the water quality exceedance.

* Fields are identified through GIS mapping of the waterways and agricultural parcels. Fields with higher potential to impact water quality include those fields directly adjacent to waterways or with drains that discharge into the monitored water way.

* Coalition obtains landowner information from the county tax assessor that includes Agricultural Parcel Numbers (APNs) and contact information on landowners in those specific areas.

* A database list is created that contains both coalition and non-coalition members.

The Coalition evaluates results from this monitoring program on an event and seasonal basis. Based upon the sampling results, the Coalition submits exceedances to the Regional Board in the form of an Exceedance Report, and within 45 days a Communications Reports that outline short-term actions. Depending upon the type of runoff potentially contributing to a surface water quality problem, local experts help review data and evaluate relevant land-use and cultural practices that can help explain the results and focus outreach efforts.

Three approaches used by the Coalition and Subwatershed Groups to communicate exceedances of water quality standards and information on MPs to landowners/growers and wetland managers are:

- * Advisory Notice (Direct Mail)
- * Outreach workshops
- * General Communications (independent of exceedances)

Workshops will be held within or near the drainage area where an exceedance occurs. Most of these workshops will be scheduled in the fall or winter months after harvest, or in early spring.

Workshops will cover:

- * Monitoring results including exceedances
- * MP's to address water quality problems
- * Distribution of MP publications
- * Distribution of subwatershed map showing the area upstream of the sample site

A Management Practice survey will be distributed with the Advisory Notices or in workshops to establish which practices are being implemented by landowners/managers to protect water quality. The results are compiled for use in grower outreach and reports to the Regional Board.

Remember to sign up and attend one of the Irrigated Lands Program meetings

Nov 15	Winters
Nov 21	Woodland
Nov 28	Clarksburg
Dec 12	Woodland

**For more information
please call the
Farm Bureau office
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Table 3. Summary of Planned Routine Monitoring in 2008

Subwatershed	Location	Physical, Chemical, and Microbiological										Toxicity			Implementation
		pH, conductivity, DO, temperature, Q	Turbidity, TDS, TSS, TOC	Nutrients	Trace metals (no selenium)	Organophosphate pesticides	Triazines	Organochlorines	Carbamate and Urea Pesticides	Pathogen Indicators: <i>E. Coli</i>	Ceriodaphnia, 96-h acute	Selenastrum, 96-h short-term chronic	Hyalella, 10-day short-term chronic	Pyrethroids in toxic sediments	
Butte-Sutter-Yuba	Grasshopper Sl. at Forty Mile Rd	8	8	8	8	8	8	8	8	8	8	8	2	2	SVWQC
	Lower Snake R. at Nuestro Rd	8	8	8	8	8	8	8	8	8	8	8	2	2	SVWQC
	Pine Creek at Nord Gianelli Rd	2	ns	ns	ns	2	ns	ns	ns	ns	2	ns	ns	ns	SVWQC
	Gilsizer Sl. at G. Washington Rd	2	ns	ns	ns	2	ns	ns	ns	ns	2	ns	ns	ns	SVWQC
	Upstream Site (RECSL or ECSSL)	8	8	8	8	8	8	8	8	8	8	8	2	2	SVWQC
Colusa Basin	Freshwater Creek at Gibson Rd	8	8	8	8	8	8	8	8	8	8	8	2	2	SVWQC
	Logan Cr. at 4 Mile-Excelsior Rd	8	8	8	8	8	8	8	8	8	8	8	2	2	SVWQC
	Lurline Creek at 99W	8	8	8	8	8	8	8	8	8	8	8	2	2	SVWQC
	Walker Creek at Co Rd 48	8	8	8	8	8	8	8	8	8	8	8	2	2	SVWQC
	Colusa Drain above KL	8	8	8	8	8	8	8	8	8	8	8	2	2	SVWQC
El Dorado	Coon Hollow Creek	8	8	8	8	8	ns	8	ns	8	8	8	2	2	SVWQC
Lake-Napa	Middle Creek u/s Hwy 20	3	3	3	3	3	3	3	ns	3	3	3	2	2	SVWQC
	Pope Cr u/s from L. Berryessa	3	3	ns	ns	ns	ns	ns	ns	3	ns	ns	ns	ns	PCWG
	Capell Cr u/s from L. Berryessa	3	3	ns	ns	ns	ns	ns	ns	3	ns	ns	ns	ns	PCWG
Pit River	Pit River at Pittville	8	8	8	ns	ns	ns	ns	ns	8	ns	ns	ns	ns	NECWA
	Fall R. at Fall R. Ranch Bridge	8	8	8	ns	ns	ns	ns	ns	8	ns	ns	ns	ns	NECWA
	Pit River at Canby Bridge	8	8	8	ns	ns	ns	ns	ns	8	ns	ns	ns	ns	NECWA
PNSNSS	Coon Creek at Brewer Rd	8	8	8	8	8	8	8	8	8	8	8	2	2	SVWQC
Sac-Amador	Laguna Creek at Alta Mesa Rd	8	8	8	8	8	8	8	8	8	8	8	2	2	SVWQC
	Dry Creek at Alta Mesa Road	8	ns	ns	ns	ns	ns	ns	ns	8	ns	ns	ns	ns	SVWQC
Shasta-Tehama	Coyote Creek at Tyler Rd	8	8	8	8	8	ns	ns	8	8	8	8	2	2	SVWQC
	Anderson Cr. at Ash Creek Rd	8	ns	ns	ns	ns	ns	ns	ns	8	ns	ns	ns	ns	SVWQC
Solano-Yolo	Willow Sl. Bypass at Pole Line	8	8	8	8	8	8	8	8	8	8	8	2	2	SVWQC
	Cache Cr. at Diversion Dam	8	8	8	8	8	8	8	8	8	8	8	2	2	SVWQC
	Ulatis Creek at Brown Road	8	8	8	8	8	8	8	8	8	8	8	2	2	SVWQC
	Shag Sl. at Liberty Island Bridge	8	8	8	8	8	8	8	8	8	8	8	2	2	SVWQC
Upper Feather	Spanish Cr. below Greenhorn Cr	7	7	7	ns	ns	ns	ns	ns	7	ns	ns	ns	ns	UFRW
	Indian Creek at Arlington Bridge	7	7	7	ns	ns	ns	ns	ns	7	ns	ns	ns	ns	UFRW
	Middle Fk Feather R. above Grizzly	7	7	7	ns	ns	ns	ns	ns	7	ns	ns	ns	ns	UFRW

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Solano-Yolo Subwatershed						
Site	Constituent	Result	Objective	Unit	Season	Date
Cache Creek at Capay Diversion Dam	Boron, total	3100	700	ug/L	Storm	2/10/2007
Cache Creek at Capay Diversion Dam	Conductivity	824	700	uS/cm	Storm	2/10/2007
Cache Creek at Capay Diversion Dam	pH	9.04	6.5-8.5	-log[H+]	Storm	2/10/2007
Cache Creek at Capay Diversion Dam	Boron, total	806	700	ug/L	Irrigation	5/16/2007
Cache Creek at Capay Diversion Dam	Boron, total	770	700	ug/L	Irrigation	6/20/2007
Cache Creek at Capay Diversion Dam	Selenastrum	Y			Irrigation	6/20/2007
Cache Creek at Capay Diversion Dam	Boron, total	810	700	ug/L	Irrigation	7/18/2007
Cache Creek at Capay Diversion Dam	Boron, dissolved	790	700	ug/L	Irrigation	8/22/2007
Cache Creek at Capay Diversion Dam	Boron, total	830	700	ug/L	Irrigation	8/22/2007
Cache Creek at Capay Diversion Dam	Ceriodaphnia	Y			Irrigation	8/22/2007
Tule Canal at I-80	Conductivity	921	700	uS/cm	Irrigation	5/15/2007
Willow Slough Bypass at SP	Boron, total	2600	700	ug/L	Storm	2/10/2007
Willow Slough Bypass at SP	Conductivity	1181	700	uS/cm	Storm	2/10/2007
Willow Slough Bypass at SP	pH	8.7	6.5-8.5	-log[H+]	Storm	2/10/2007
Willow Slough Bypass at SP	Selenium, total	7	5	ug/L	Storm	2/10/2007
Willow Slough Bypass at SP	TDS	650	500	mg/L	Storm	2/10/2007
Willow Slough Bypass at SP	Carbofuran	0.72	0.4	ug/L	Irrigation	4/17/2007
Willow Slough Bypass at SP	Ceriodaphnia	Y			Irrigation	4/17/2007
Willow Slough Bypass at SP	DDE	0.0043	0.00059	ug/L	Irrigation	4/17/2007
Willow Slough Bypass at SP	Selenastrum	Y			Irrigation	4/17/2007
Willow Slough North Fork at CR99	Selenastrum	Y			Irrigation	4/17/2007
Willow Slough Bypass at SP	Chlorpyrifos	0.083	0.015	ug/L	Irrigation	4/18/2007
Willow Slough Bypass at SP	Boron, total	1500	700	ug/L	Irrigation	5/15/2007
Willow Slough Bypass at SP	Boron, total	1700	700	ug/L	Irrigation	6/19/2007
Willow Slough Bypass at SP	Boron, total	1400	700	ug/L	Irrigation	7/17/2007
Willow Slough Bypass at SP	DDE	0.004	0.00059	ug/L	Irrigation	7/17/2007
Willow Slough Bypass at SP	Malathion	0.455	0.1	ug/L	Irrigation	7/17/2007
Willow Slough North Fork at CR99	DDE	0.0104	0.00059	ug/L	Irrigation	7/17/2007
Willow Slough Bypass at SP	Boron, total	1200	700	ug/L	Irrigation	8/21/2007
Willow Slough Bypass at SP	Chlorpyrifos	0.023	0.015	ug/L	Irrigation	8/21/2007
Willow Slough Bypass at SP	DDE	0.0056	0.00059	ug/L	Irrigation	8/21/2007
Willow Slough Bypass at SP	E. coli	300	235	MPN/100mL	Irrigation	8/21/2007
Willow Slough Bypass at SP	Boron, dissolved	1200	700	ug/L	Irrigation	8/21/2007
Z Drain – Dixon RCD	Conductivity	884	700	uS/cm	Irrigation	5/15/2007