

SVWQC EXCEEDANCE REPORT *Final*

DATE: September 16, 2015
TO: Lynn Coster, Central Valley Regional Water Quality Control Board
Gurbinder Dhaliwal, Central Valley Regional Water Quality Control Board
CC: Susan Fregien, Central Valley Regional Water Quality Control Board
FROM: Sacramento Valley Water Quality Coalition
SUBJECT: Water Quality Exceedances
SVWQC EVENT NUMBER: 112
EVENT DATES: June 16 – 18, 2015
EVENT TYPE: Irrigation Season

SUMMARY OF EXCEEDANCES

The Sacramento Valley Water Quality Coalition (Coalition) conducted sampling from June 16 – 18, 2015 as required by the Irrigated Lands Conditional Waiver and the Coalition’s Monitoring and Reporting Program (MRP). The observed exceedances of the ILRP Trigger Limits and planned follow-up actions are summarized in Table 1.

FOLLOW-UP ACTIONS

In response to the observed exceedances of the ILRP Trigger Limits, the following actions were taken or planned:

Information regarding these exceedances will be provided to local growers in the affected subwatershed through local outreach efforts.

For exceedances being addressed by an approved Management Plan, follow-up actions will be performed as established in those plans.

Relevant site observations will be evaluated for possible causes of any observed exceedances of DO or pH water quality objectives.

For exceedances of toxic pollutants and for toxicity exceedances where survival or algae growth are $\leq 80\%$ compared to control, chemical results will be reviewed for possible contributions to toxicity (as indicated in **Table 1**).

For toxicity and pesticide exceedances, pesticide applications preceding the sample dates will be investigated in the contributing drainage indicated in **Table 1** with the assistance of the local Agriculture Commissioners.

Toxicity Identification Evaluation (TIE) procedures are required to be initiated for Coalition samples with $\geq 50\%$ reductions in Ceriodaphnia or Pimephales survival or Selenastrum growth compared to control. TIEs are initiated on the first possible day following observance of $\geq 50\%$ mortality.

Definitive serial dilution tests are required for samples with 100% reductions in Ceriodaphnia or Pimephales survival compared to control. Tests are initiated on the first possible day following observance of 100% mortality.

Discussion of additional relevant follow-up actions will be initiated with the representatives of the affected subwatershed as outlined in the Coalition’s communication strategy document.

The results of follow-up actions in response to these exceedances will be documented in the Coalition’s Annual Report (May 2016).

TABLE 1: SUMMARY OF EXCEEDANCES

Exceedance Category	Sub-watershed	Site ID	Site	Replicate	Sample Date	Analyte	Units	Result	Trigger Limits ¹	Follow-up Evaluations							
										Existing Mgt Plan?	New Management Plan Triggered	Evaluate Relevant Site Conditions	Follow up-Chemistry Analysis	Toxicity Identification Evaluation	Serial Dilution	Review Chemistry and/or Pesticide Applications	Compare to Toxicity Results
Field Measures	ButteYubaSutter	PNCHY	Pine Creek at Highway 23	1	6/17/2015	Dissolved Oxygen	mg/L	6.13	7	X	-	X	-	-	-	-	-
<i>Field Measures</i>	<i>ButteYubaSutter</i>	PNCHY	<i>Pine Creek at Highway 23</i>	<i>1</i>	<i>6/17/2015</i>	<i>Discharge</i>	<i>CFS</i>	<i>0</i>	<i>NA</i>	-	-	-	-	-	-	-	-
Field Measures	ColusaGlenn	SCCMR	Stone Corral Creek near Maxwell Road	1	6/16/2015	Dissolved Oxygen	mg/L	3.77	5	X	-	X	-	-	-	-	-
<i>Field Measures</i>	<i>ColusaGlenn</i>	SCCMR	<i>Stone Corral Creek near Maxwell Road</i>	<i>1</i>	<i>6/16/2015</i>	<i>Velocity²</i>	<i>FPS</i>	<i>0.8</i>	<i>NA</i>	-	-	-	-	-	-	-	-
Field Measures	SacramentoAmador	GIDLR	Grand Island Drain near Leary Road	1	6/16/2015	Dissolved Oxygen	mg/L	4.61	5	X	-	X	-	-	-	-	-
<i>Field Measures</i>	<i>SacramentoAmador</i>	GIDLR	<i>Grand Island Drain near Leary Road</i>	<i>1</i>	<i>6/16/2015</i>	<i>Discharge</i>	<i>CFS</i>	<i>0</i>	<i>NA</i>	-	-	-	-	-	-	-	-
Field Measures	ShastaTehama	COYTR	Coyote Creek at Tyler Road	1	6/16/2015	Dissolved Oxygen	mg/L	5.04	7	X	-	X	-	-	-	-	-
<i>Field Measures</i>	<i>ShastaTehama</i>	COYTR	<i>Coyote Creek at Tyler Road</i>	<i>1</i>	<i>6/16/2015</i>	<i>Discharge</i>	<i>CFS</i>	<i>0</i>	<i>NA</i>	-	-	-	-	-	-	-	-
Field Measures	Solano	UCBRD	Ulatis Creek at Brown Road	1	6/16/2015	Conductivity	µS/cm	773	700	X	-	-	-	-	-	-	-
<i>Field Measures</i>	<i>Solano</i>	UCBRD	<i>Ulatis Creek at Brown Road</i>	<i>1</i>	<i>6/16/2015</i>	<i>Discharge</i>	<i>CFS</i>	<i>21.69</i>	<i>NA</i>	-	-	-	-	-	-	-	-
Field Measures	Solano	ZDDIX	Z Drain	1	6/16/2015	Dissolved Oxygen	mg/L	3.5	5	X	-	X	-	-	-	-	-
Field Measures	Solano	ZDDIX	Z Drain	1	6/16/2015	<i>Discharge</i>	<i>CFS</i>	<i>48.43</i>	<i>NA</i>	-	-	-	-	-	-	-	-
Field Measures	Yolo	WLSPL	Willow Slough Bypass at Pole Line	1	6/16/2015	Conductivity	µS/cm	856	700	X	-	-	-	-	-	-	-
Field Measures	Yolo	WLSPL	Willow Slough Bypass at Pole Line	1	6/16/2015	Dissolved Oxygen	mg/L	4.12	7	X	-	X	-	-	-	-	-
<i>Field Measures</i>	<i>Yolo</i>	WLSPL	<i>Willow Slough Bypass at Pole Line</i>	<i>1</i>	<i>6/16/2015</i>	<i>Discharge</i>	<i>CFS</i>	<i>1.55</i>	<i>NA</i>	-	-	-	-	-	-	-	-
Toxicity (Water)	No toxicity was observed this event																

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Chemical Results	ButteYubaSutter	LHNCT	Lower Honcut Creek at Hwy 70	1	6/17/2015	E. coli	MPN/100mL	248.9	235	X	-	-	-	-	-	-	-
Chemical Results	PNSSNS	CCBRW	Coon Creek at Brewer Road	1	6/16/2015	E. coli	MPN/100mL	248.1	235	X	-	-	-	-	-	-	-
Chemical Results	SacramentoAmador	GIDLR	Grand Island Drain near Leary Road	1	6/16/2015	Arsenic	µg/L	13	10	X	-	-	-	-	-	-	-
Chemical Results	Yolo	TCHWY	Tule Canal at I-80	1	6/17/2015	Boron	µg/L	1300	700	X	-	-	-	-	-	-	-

Table Notes:

- 1 Water Quality Objective or Narrative Interpretation Limits for ILRP.
- 2 Unable to record flow. Velocity is estimated.