

SVWQC EXCEEDANCE REPORT

Final

DATE: August 21, 2020
TO: Rebecca Tabor, Central Valley Regional Water Quality Control Board
CC: Susan Fregien, Central Valley Regional Water Quality Control Board
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FROM: Sacramento Valley Water Quality Coalition
SUBJECT: Water Quality Exceedances
SVWQC EVENT NUMBER: 172
EVENT DATES: July 23, 2020
EVENT TYPE: Irrigation Season

SUMMARY OF EXCEEDANCES

The Sacramento Valley Water Quality Coalition (Coalition) conducted sampling on July 23, 2020 as required by the Irrigated Lands Waste Discharge Requirements (WDR) 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 2021).

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	<i>No exceedances were observed this event.</i>																
Chemical Results	ShastaTehama	ACACR	Anderson Creek at Ash Creek Road	1	7/23/2020	E. coli	MPN/100mL	547.5	235	X	-	-	-	-	-	-	-
Chemical Results	ShastaTehama	ACACR	Anderson Creek at Ash Creek Road	2	7/23/2020	E. coli	MPN/100mL	816.4	235	X	-	-	-	-	-	-	-

Table Notes:

1 Water Quality Objective or Narrative Interpretation Limits for ILRP.

2 Discharge and/or velocity measurements are provided as relevant site conditions when field measurements exceed water quality objectives. Discharge and velocity measurements do not constitute exceedances themselves, because they are not associated with flow objectives.

3 Discharge recorded as zero due to no measureable flow.