

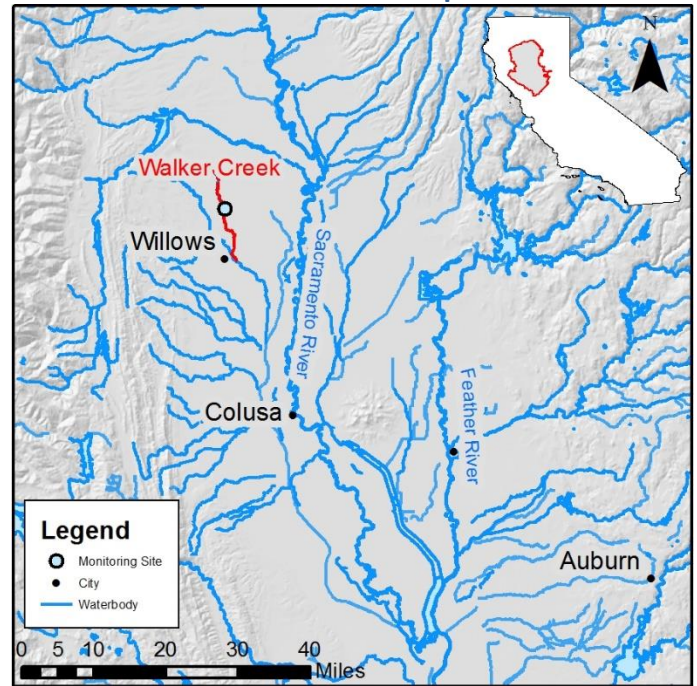
Water Quality Report Card	
Regional Water Board:	Central Valley, Region 5
Beneficial Uses Affected:	Warm Freshwater Habitat
Implemented Through:	Irrigated Lands Regulatory Program (ILRP)
Effective Date:	Management Plan, Feb. 2009
Attainment Date:	2014

Pesticides (Chlorpyrifos) in Walker Creek	
STATUS	<input type="checkbox"/> Conditions Improving <input type="checkbox"/> Data Inconclusive <input type="checkbox"/> Improvement Needed <input checked="" type="checkbox"/> Targets Achieved/Water Body Delisted
	Pollutant Type: <input type="checkbox"/> Point Source <input checked="" type="checkbox"/> Nonpoint Source <input type="checkbox"/> Legacy
Pollutant Source:	Irrigated Crop Production

Water Quality Improvement Strategy

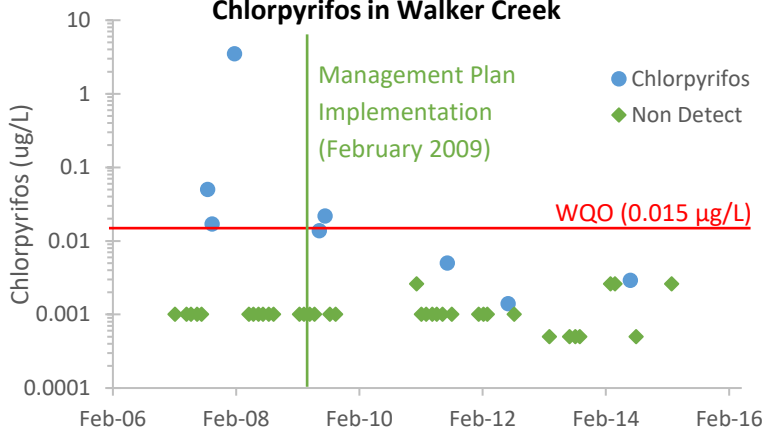
Walker Creek is a 21-mile waterway located within the Sacramento River Watershed in Glenn County, California. Between 2007 and 2009, exceedances of the water quality objective (WQO) for chlorpyrifos, an organophosphate insecticide used by growers in the watershed, and chlorpyrifos-related toxicity to the water flea (*Ceriodaphnia dubia*) were observed in Walker Creek. In 2008, the [Sacramento Valley Water Quality Coalition \(SVWQC\)](#), a third-party coalition representing growers regulated by the [Central Valley Water Board's Irrigated Land Regulatory Program \(ILRP\)](#), developed a [management plan](#) to reduce chlorpyrifos concentrations to meet the WQO (0.015 µg/L). The management plan included outreach and education to growers and stakeholders, a survey of current use management practices, and implementation of additional best management practices, for example, growers transitioned approximately 727 acres to micro irrigation to minimize runoff. Following implementation of the management plan, there were no exceedances of the WQO for chlorpyrifos, and no *Ceriodaphnia* toxicity in Walker Creek. Therefore, the management plan was approved as complete in 2014. Further information is available from the [ILRP](#) and [US Department of Agriculture](#).

Watershed Map



Water Quality

Chlorpyrifos in Walker Creek



Water Quality Outcomes

- Water quality data indicate that chlorpyrifos water quality objectives are now being met in Walker Creek.
- There has been no significant toxicity to *Ceriodaphnia dubia* since implementation of the management plan in February, 2009.
- The SVWQC continues to monitor the site for both chlorpyrifos and *Ceriodaphnia* toxicity.
- On the [2014/2016 Integrated Report](#) Walker Creek was listed for chlorpyrifos as an impairment being addressed by State pollution control requirements (category 4b).
- In the upcoming Integrated Report cycles, Walker Creek will be considered for delisting for chlorpyrifos.

Ceriodaphnia dubia Toxicity Test Results

