

## Possible Source ID Triggers

**Table A. Possible definitions of the triggers in a Triad interpretation framework, designed to initiate further adaptive studies to identify potential sources of impact. "IBI" refers to the Index of Biotic Integrity, a regional bioassessment index developed by Fish & Game and SWAMP.**

Possible Source ID Trigger	Definition of Trigger
Persistent exceedance of water quality objectives	Exceedance of relevant Basin Plan or CTR objectives by 20% for 3 sampling periods
Evidence of toxicity	High score, in relation to other stations, on metric that combines magnitude and persistence of toxicity observed over an entire year (see TIE Metric wrietup)
Evidence of benthic alteration	IBI score that indicates substantially degraded community (in freshwater creeks, streams, and rivers)

**Table B. Summary of possible source identification priorities, based on combinations of the chemical, toxicity, and benthic components of a triad approach. “Yes” and “No” refer to whether or not data from each component exceeded the triggers described in Table A.**

Scenario	Triad Component	Yes	No	Source ID Priority
1	chemistry	X		High
	toxicity	X		
	benthos	X		
2	chemistry		X	None
	toxicity		X	
	benthos		X	
3	chemistry	X		Low <sup>1</sup>
	toxicity		X	
	benthos		X	
4	chemistry		X	Medium
	toxicity	X		
	benthos		X	
5	chemistry		X	High (for physical components)
	toxicity		X	
	benthos	X		
6	chemistry	X		Medium
	toxicity	X		
	benthos		X	
7	chemistry		X	High
	toxicity	X		
	benthos	X		
8	chemistry	X		High
	toxicity		X	
	benthos	X		

<sup>1</sup> If further testing indicates appropriate and sensitive enough toxicity tests were used and analytical results suggest pollutant is not bioavailable.