



SAMPLING FOR PESTICIDE RESIDUES IN CALIFORNIA WELL WATER

DPR Response to Detections in the 2021 Well Sampling Report

The 2021 Annual Well Sampling Report includes well sampling data from the Department of Pesticide Regulation (DPR) and the State Water Resources Control Board (SWRCB) for 2020 and the United States Geological Survey (USGS) for 2019-2020. This infographic describes how DPR will address the pesticide residues detected in California well water as identified in the report.

DPR Follows Five Major Steps to Protect Groundwater Through the Pesticide Contamination Prevention Act (PCPA)

Identify	Establish	Monitor	Evaluate	Report
<p>Identify physical chemical properties conducive to leaching</p> <p>Find areas vulnerable to groundwater contamination = <u>Groundwater Protection Areas (GWPA)</u></p>	<p>List potential contaminants</p> <p>Set persistence and mobility thresholds</p> <p>Establish GWPAs</p> <p>Conceive and implement mitigation measures</p>	<p>Monitor for potential and known contaminants</p> <p>Respond to detections by public agencies by investigating and sampling</p>	<p>Determine if detections are due to Legal Agricultural Use</p> <p>Assess mitigation measures</p> <p>Model contaminant transport to evaluate new pesticides</p>	<p>Maintain a database of detections by public agencies = <u>Well Inventory Database (WIDB)</u></p> <p>Prepare annual Well Sampling Report to summarize monitoring results and actions taken</p>

The annual report describes DPR's responses to the pesticide detections in groundwater. A "pesticide" refers to either the active ingredient of a pesticide product or the breakdown product (degrade) of an active ingredient. The responses to the 41 pesticides reported detected varies based on several factors.

DPR Evaluates All Reported Detections

DPR investigates detections further when these two factors are met:

- The detection is a pesticide currently registered for use in California.
- The detection is above DPR's screening level currently set at 0.04 ppb.

DPR investigates these detections unless one of the following are true:

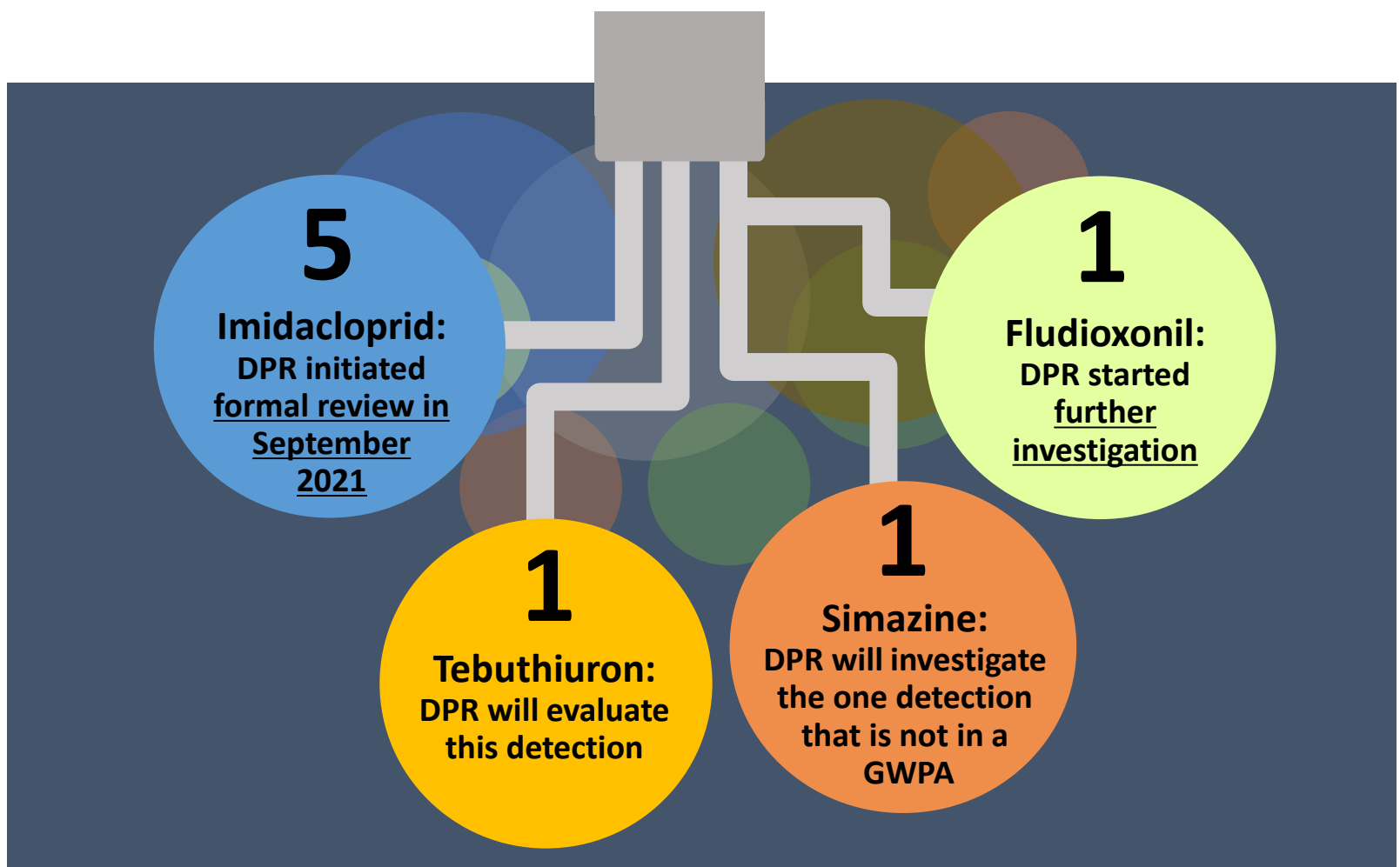
- DPR formally reviewed the pesticide for potential risk to human health and the detection is below the level determined to pollute groundwater.
- The detection is in a GWPA and is already regulated as a groundwater contaminant.

DPR enters all detections in the WIDB and documents all responses.

37 Pesticides Detected Did Not Require Further Investigation or Mitigation

- 9** are chemicals not registered in California (e.g., detection from legacy pesticide use or non-pesticidal use)
- 16** are below DPR's screening level of 0.04 ppb
- 3** are at levels determined not to pollute groundwater
- 9** are only detected in GWPAs where their use is restricted to protect groundwater

DPR is Conducting Further Investigation on 8 Detections of 4 Pesticides



View DPR's annual Well Sampling Reports at: cdpr.ca.gov/docs/emon/grndwtr/wellinv/wirmain.htm

Data are available at: cdpr.ca.gov/docs/emon/grndwtr/well_inventory_database/index.htm