

State Water Resources Control Board

September 12, 2025

Dr. Luciana Pereyra
Trussell Technologies, Inc.
380 Stevens Avenue, Suite 212
Solana Beach, CA, 92075

Dear Dr. Pereyra,

This letter serves as notice that Trussell Technologies, Inc. has been conditionally approved for the use of Aryl Hydrocarbon Receptor (AhR) bioanalytical screening for monitoring constituents of emerging concern pursuant to the Water Quality Control Policy for Recycled Water (Recycled Water Policy).

Trussell Technologies, Inc. submitted a validation package for AhR bioanalytical screening tool on July 31st, 2025. Staff has determined that the package meets all quality assurance/quality control requirements with the exception of matrix spike recovery criterion. According to the [National Water Research Institute \(NWRI\) guidance document](#), the matrix spike recovery criteria was originally set to 70-130%, but was later amended to 40-160% due to nearly all laboratories reporting difficulty in achieving the original range. The submitted validation data do not meet this amended criterion. However, staff is conditionally approving Trussell Technologies, Inc. to conduct this bioassay as we recognize both the challenges associated with meeting the matrix recovery criterion and the value of increasing bioassay data availability.

This conditional approval is valid for two years, beginning upon receipt of this letter. During this period, staff will review the quarterly monitoring reports and may request additional information based on the reported data. Under this conditional approval, staff encourages continued method improvement with the goal of achieving a matrix recovery within the acceptable range of 40-160%. Additionally, staff will continue to share any relevant updates and insights related to the analytical complexity of tetrachlorodibenzo-p-dioxin (TCDD) in AhR bioassay screening.

This conditional approval for this bioanalytical screening tool is only for the purposes outlined in the Recycled Water Policy, Attachment A, and does not extend the use of this method for any other purposes.

September 12, 2025

Sincerely,

Angelica Rojas

Angelica Rojas

Cc:

Shane Trussell, Trussell Technologies, Inc.
Laura McLellan, State Water Resources Control Board
Randy Barnard, State Water Resources Control Board
Leah Lemoine, Central Coast Regional Water Quality Control Board
Steven Webb, Los Angeles Regional Water Quality Control Board
Julio Lara, Santa Ana Regional Water Quality Control Board
Olufisayo Osibodu, San Diego Regional Water Quality Control Board