

## Total Maximum Daily Load (TMDL)

### Overview

The Federal Clean Water Act Section 303(d) requires states to develop lists of impaired water bodies and develop load reduction programs (called TMDLs) that insure that the impaired water body meet *standards* (water quality objectives to protect beneficial uses) by a specified date. A TMDL establishes numeric targets to attain applicable water quality standards, establishes the waterbody's maximum allowable pollutant load consistent with those targets, and allocates the allowable load among the pollutant sources. The Board typically establishes the TMDL and its implementation plan through an amendment to the Basin Plan.

Approximately every two years, the 303(d) list is updated through a public process as part of the development of the [Integrated Report](#). The integrated report identifies how many miles or acres of surface water bodies within each Region are good, intermediate or impaired. The Central Valley Water Board has placed a high priority on addressing the most significant and wide-spread water quality impairments and have [adopted TMDLs](#) that encompass entire watersheds, including hundreds of miles of streams and large numbers of dischargers (e.g. Nutrient and Mercury in Clear Lake; Delta Mercury; Salt and Boron in the Lower San Joaquin River; and Selenium in the San Joaquin River Basin).

There are currently 930 Central Valley waterbody-pollutant segments listed as impaired on the Board's most recently approved 303(d) list. TMDLs and other Board actions have addressed 152 of these listings and 778 currently need to be addressed, but that number will change as the 303(d) list is updated and additional TMDL projects completed. Funding for the program comes from both Waste Discharger Permit Fees (4.02 staff) and Federal USEPA (3.5 staff). Currently staff activities allocations are 2.1 Staff (19%) for TMDL Development, 2.35 staff (21%) for TMDL Implementation, 2.1 staff (19%) for Integrated Report, and 0.97 staff (9%) for Program Management. All program staff work out of the Rancho Cordova office.

### Goals

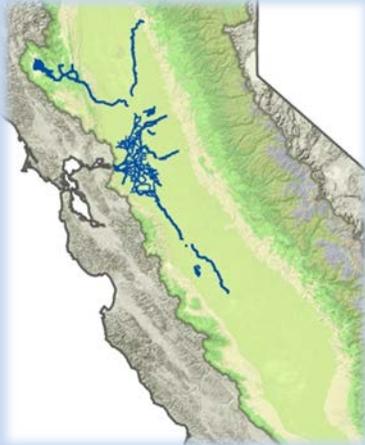
The TMDL Program goals are:

- Develop and implement TMDLs and other pollution control requirements to address the highest priority pollutants and stressors in surface waters: pesticides; mercury; salt; selenium; and low dissolved oxygen.
- Implement TMDL-program related portions of the Board's [2014 Delta Strategic Plan](#).
- Address 303d listings efficiently, including addressing multiple 303(d) listings with one project, developing programs that prevent potential future 303(d) listings, documenting when waterbodies can be de-listed, and documenting when existing control programs preclude the need for TMDLs.
- Coordinate with the Board's regulatory programs to ensure the TMDLs and other pollution control requirements are implemented correctly and water quality impairments are reduced.
- Update the 303(d) list of impaired waters.

# TMDL Progress: Water Bodies with 303(d) Listings Addressed

Adopted TMDLs: 75 303(d) listings

Other Control Programs: 77 303(d) listings



Accomplishments--Priority Projects/Activities: FY 2016 - 2017	Status
<a href="#"><u>2014 Central Valley Integrated Report</u></a> : assessment of overall surface water quality within the Region and update of the 303(d) list of impaired water bodies	Completed
<b>Board adoption of a <a href="#"><u>Pyrethroid Control Program</u></a></b> : addresses 15 known Pyrethroid impairments and incorporates a phased control program for timely and efficient water quality improvement where needed	Completed
<b><a href="#"><u>Statewide Mercury TMDL for Impaired Reservoirs</u></a></b> <ul style="list-style-type: none"> <li>• Submit draft staff report for scientific peer review</li> <li>• Develop management pilot projects with Reservoir Operators</li> <li>• Release proposed TMDL for public comment</li> </ul>	Completed On-going Delayed
<b>TMDL Implementation</b> <ul style="list-style-type: none"> <li>• <a href="#"><u>Delta Mercury</u></a></li> <li>• <a href="#"><u>Diazinon/Chlorpyrifos Control Program</u></a></li> <li>• <a href="#"><u>Dissolved Oxygen in Stockton Deep Water Ship Channel</u></a></li> <li>• <a href="#"><u>Clear Lake Mercury Control Program</u></a></li> </ul>	On-going
<b>Resolutions for additional impairment de-listing based on data post 2010</b>	Delayed
<b>Initiate Mercury Offsets Review Sacramento River Basin</b>	Delayed

## Priority Activities/Targets: FY 2017 – 2018

- Initiate development of a mercury TMDL for major river tributaries to the Delta
  - Include mercury offsets review
- Complete 2018 Central Valley Integrated Report/303(d) list update focused on de-listing waterbodies where new data indicate standards are being attained or impairments are being addressed through existing programs
- Support the development of a Statewide TMDL for mercury-impaired reservoirs
  - Survey Reservoir Operators and compile potential implementation options

### Continued TMDL Implementation:

- Delta Mercury Control Program, including
  - Delta Mercury Exposure Reduction Program
- Pyrethroid Pesticides and Diazinon/Chlorpyrifos Control Programs
- Dissolved Oxygen in the Stockton Deep Water Ship Channel
- Clear Lake Mercury Control Program