



Classification: Water Resource Control Engineer
 Position Number: 880-120-3846-XXX

DUTY STATEMENT

CURRENT PROPOSED

RPA Number: 25-120-065	Classification Title: Water Resource Control Engineer	Position Number: 880-120-3846-XXX
Incumbent Name: Vacant	Working Title: Water Resource Control Engineer	Effective Date: TBD
Tenure: Permanent	Time Base: Full Time	CBID: R09
Division/Office: San Francisco Bay Regional Water Quality Control Board (Region 2)		Section/Unit: Planning Division
Supervisor's Name: Xavier Fernandez		Supervisor's Classification: Environmental Program Manager I

Human Resources Use Only:	
HR Analyst Approval:	Date:

General Statement
Under the close supervision of an Environmental Program Manager I, and consistent with good customer service practices and the goals of the State and Regional Board's Strategic Plan, the incumbent is expected to be courteous and provide timely responses to internal/external customers, follow through on commitments, and to solicit and consider internal/external customer input when completing work assignments.
Position Description
The Water Resource Control Engineer will lead and support development and implementation of water quality attainment strategies Total Maximum Daily Loads [TMDLs] and Advance Restoration Plans [ARPs]), water quality standards, and other Basin Planning projects. The incumbent will apply technical and statistical engineering skills to analyze spatial and temporal datasets, interpret modeling results, and translate scientific findings into regulatory frameworks that address water quality impairments in the San Francisco Bay Region. The position includes collaboration with internal programs, coordination with external parties, and outreach to the public. The incumbent will also represent the Water Board on internal and external technical committees and workgroups.



Essential Functions (Including percentage of time):	
25%	<p>Using engineering knowledge and technical expertise evaluate cases of water quality degradation and make recommendations for their elimination and control through development or implementation of TMDLs or ARPs following Environmental Protection Agency (US EPA) and State Guidance. Collect and assimilate available information relevant to complex TMDL development. Apply engineering knowledge and skills to develop problem definition statements, sources and loadings analyses, pollutant fate and transport analyses, and allocation of loads including a margin of safety. Develop source identification and site prioritization based on threat to water quality. TMDL development may include statistical analysis of environmental data and modeling the linkages between sources of pollution and numeric targets. Utilize programming languages such as R and Python to accomplish data manipulation, analysis, and visualization. Prepare draft orders, such as waste discharge requirements and site cleanup requirements. Write project memos, technical memos, and TMDL staff reports. Engage with interested parties to gather information, prepare written documents for public review, prepare responses to public comments, and verbally present information. Facilitate meetings attended by a broad variety of interested parties, including community-based organizations, non-profit organizations, affected communities, permittees, and staff from other agencies. Prepare the complete package of TMDL elements as a Basin Plan amendment for consideration by the Regional Water Board. This includes CEQA documentation, documentation of stakeholder processes and comments, peer review, public notice of hearings, and response to comments. Follow the Basin Plan amendment through State Water Board public notice and approval, and Office of Administrative Law, and US EPA approval. Participate in State Water Board member briefings and preparing presentations, responses to questions, and the project's administrative record.</p>
25%	<p>Use sound engineering knowledge and judgment and collaborate with Water Board colleagues to include TMDL implementation plan and ARP elements into orders and permits. Work with regulated parties to ensure that they fulfill TMDL and ARP requirements within associated orders and permits. This work may include design and review of relevant scientific studies, interpreting technical reports, reviewing engineering designs, interpreting monitoring data, and communicating updates to management and the public. TMDL implementation may include conducting or supervising site investigations, collecting soil or water quality samples, and reviewing and approving natural resource inventories and water quality improvement plans.</p>



25%	Using engineering knowledge and technical expertise lead or support high priority Basin Planning projects focused on developing and revising water quality standards and implementation plans. Scope, plan, track, and manage Basin Plan Amendments and TMDLs to address priority and emerging pollutants such as PCBs, PFAS, and others. Communicate project status, share technical and regulatory information, solicit input, and facilitate and support decision-making related to Basin Plan Amendments, monitoring plans, and other technical and regulatory documents. Represent the agency on internal and external committees and workgroups such as those supporting the Regional Monitoring Plan. Establish, adapt, and meet milestones and completion dates of assigned tasks and projects.
20%	Using their knowledge of engineering principles and water resources management develop written correspondence and informational materials regarding projects through emails, letters, reports, websites, and presentations. Attend meetings with peers, supervisors, management, and external stakeholders. Work collaboratively in groups internally across sections and divisions and with external parties to develop technical, regulatory, and procedural recommendations for projects and issues. Share and gather information during public meetings, workshops, educational and other forums. Provide technical assistance to colleagues in other program areas, coordinate meetings with supervisors and other managers, and respond to customer service inquiries.
Marginal Functions (Including percentage of time):	
5%	Perform other duties as required.
Typical Physical Conditions/Demands:	
The job requires extensive use of an agency-provided personal computer and the ability to sit/stand at desk, communicate regularly through Microsoft Teams, and type on a keyboard for extended periods of time. Ability to lift 15 pounds, bend and reach above shoulders to retrieve files and/or documents. During field events, navigate uneven, rugged terrain for extended periods of time, in extreme temperatures throughout the workday, carry up to 50 lbs., standing/sitting for long periods of time, etc. The incumbent works on the 15th floor of a high-rise office building in downtown Oakland, in an enclosed, non-windowed office cubicle in a smoke-free environment.	
Typical Working Conditions:	
The standard work schedule is Monday through Friday. Travel may be required locally and within the state.	

Supervisor Statement

I certify this duty statement represents an accurate description of the essential functions of this position. I have discussed the duties of this position with the employee and provided the employee a copy of this duty statement.



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Supervisor Name	Supervisor Signature	Date
Employee Name	Employee Signature	Date