JOB DESCRIPTION AND POSITION CLASSIFICATION

CLASSIFICATION	DWR POSITION NUMBER	SAP POSITION NUMBER	MCR
Environmental Scientist	**6300-0762-010**	**50000220**	**1**

APPOINTEE	SAP PERSONNEL NO.	DIVISION/SECTION
Vacant		**Regional Assistance/NCRO/Bathymetry**

COLLECTIVE BARGAINING IDENTIFIER

Management Related BU:	Supervisory Related BU:	Confidential Related BU:	Rank and File BU:
☐	☐	☐	☑ **10**

RESPONSIBILITIES EXERCISED	IMMEDIATE SUPERVISOR (Print)	SUPERVISOR'S CLASSIFICATION
☐ Supervisory ☐ Lead Person	**Brody Sunderland**	**Senior Environmental Scientist**

APPROVED BY (Personnel Analyst's Name)	DATE
Samantha Meeks	**11/12/26**

Percent of Time	*Activity*
	POSITION SUMMARY **Under supervision of the Senior Environmental Scientist, the Environmental Scientist performs a variety of professional scientific work involving collecting, processing, managing, quality assurance and quality control (QA/QC), and analysis of bathymetric and other environmental and geographic information, generally within the Sacramento-San Joaquin River Delta and at facilities related to the State Water Project.** **ESSENTIAL FUNCTIONS** **The incumbent must work cooperatively with others; maintain regular, consistent, and predictable attendance; communicate effectively both orally and in writing; exercise good judgment; and, as part of a team, participate in bathymetric data collection and post-processing, office meetings and other related activities.** **The specific job duties are as follows:**
45%	**FIELD DATA COLLECTION** **Collect bathymetric datasets and identify and record information on vegetation and other environmental parameters using a variety of vessels, multi-beam and single-beam sonar systems, LiDAR, HYPACK software, RTK GPS, computers and other instrumentation primarily in the Sacramento-San Joaquin Delta and at facilities related to the State Water Project. Assist in the planning and implementation of bathymetric projects and studies. Under the responsible charge of a California licensed Professional Land Surveyor (PLS), assist with small scale land surveys with Trimble equipment to verify bathymetric data quality. Launch, retrieve, maintain and secure boats at marinas throughout the region. Maintain boats and field equipment to ensure safe operation and that high-quality data collection is maintained using manufacturer recommended maintenance schedules and specifications. This requires driving a vehicle on public roadways and on uneven terrain.**

SUPERVISOR'S STATEMENT: **I HAVE DISCUSSED THE DUTIES OF THE POSITION WITH THE EMPLOYEE.**

SUPERVISOR'S NAME (Print)	SUPERVISOR'S SIGNATURE	DATE
Brody Sunderland	➢	

EMPLOYEE'S STATEMENT: **I HAVE DISCUSSED WITH MY SUPERVISOR THE DUTIES OF THE POSITION AND HAVE RECEIVED A COPY OF THE DUTY STATEMENT.**

EMPLOYEE'S NAME (Print)	EMPLOYEE'S SIGNATURE	DATE
	➢	

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Percent of Time	*Activity*
35%	**DATA PROCESSING, MANAGEMENT AND ANALYSIS** **Import, process, analyze, and QA/QC data collected in the field using hydrography software according to BDCS and industry standard operating procedures. Develop and maintain geodatabases using ESRI ArcGIS to store bathymetric and other environmental data and metadata. Use ArcGIS, CARIS, HYPACK, Illustrator, and other software packages to interpret and visualize data, create maps, posters, presentations and annual reports. Apply scientific methods and principles to assist in developing and implementing a riverbed monitoring plan to accurately quantify natural and man-made factors that may impact the quality and quantity of water transport and its effect in Delta channels such as scour and sedimentation, vegetation density and distribution, and agricultural discharges.**
10%	**EQUIPMENT MANAGEMENT** **Monitor and troubleshoot mechanical, electrical and computer aspects of sonar systems and other related equipment as required to ensure data collection consistently meets manufacturer specifications and DWR standards and expectations. Assist with the annual calibration of sonar systems to maintain and document system precision and performance. Design, construct and maintain custom onboard equipment storage and housing to improve equipment deployment and provide a safe, organized work platform.**
10%	**RESEARCH AND DEVELOPMENT** **Research and develop new technologies to enhance Section capabilities, including data products and deliverables, operating protocols, data collection techniques, and processing methods in support of DWR priorities. Assist in the development of sub-aquatic vegetation mapping, sediment transport mapping, and drone (UAV) mapping.**
	OTHER RESPONSIBILITIES **This position provides necessary support to the Divisions of Flood Management, Safety of Dams, Operations and Maintenance, Engineering, and/or the Public Affairs Office during Governor declared emergencies, flood, dam, SWP, and other incidents and emergencies. Additionally, this position may participate in emergency operations in the capacity of area teams, field inspection, coordination, and assist agencies such as Cal OES and FEMA in disaster work, including performing fieldwork to complete damage survey reports for droughts, flooding, earthquakes, and other emergencies. This position may also serve in one of the sections as established in the Incident Command System to assist the Department in performing its emergency preparedness, response, recovery, and mitigation functions. These functions are established in the California State Emergency Plan and the Department's Administrative Orders.**
	SPECIAL REQUIREMENTS **All employees are responsible for contributing to an inclusive, safe, and secure work environment that values diverse cultures, perspectives, and experiences, and is free from discrimination.** **Possession of a valid California driver's license is required. Possessing or obtaining a valid California Boater Card is also required.**

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	ADDITIONAL REQUIRMENTS **This position requires the ability to:** **1. Operate both standard and four-wheel drive vehicles on public and private roads in all weather conditions.** **2. Safely and skillfully trailer, launch, retrieve, operate and maintain motorboats and associated trailers.** **3. Ability to report to work early in the morning to prepare and deploy with the team for fieldwork. Once deemed eligible, the required work schedule will be 4 days per week with 10-hour days, Monday through Thursday, to accommodate the longer days required to optimize daily data collection opportunities.** **4. Occasional overtime and weekend work may be required.** **5. Occasional overnight travel may be required to perform fieldwork outside the local area.** **6. Stay current on all necessary safety-related training.** **PHYSICAL REQUIREMENTS - Field work requires strenuous physical activities including the following:** **1. Work on and around swift moving waterways.** **2. Ability to swim and stay afloat in case of capsizing.** **3. Tolerate field work on a small boat for long hours under a variety of extreme weather conditions.** **4. Lift, maneuver and transport equipment weighing up to 50 lbs within vessels and to and from vehicles.** **5. Ability to bend, stoop, and twist to traverse and transport equipment over steep, remote, uneven and unpaved areas.**